

STIC-Biotech/ChemLib

160423

From: Hamud, Fozia
Sent: Monday, July 25, 2005 5:44 PM
To: STIC-Biotech/ChemLib
Subject: sequence search for 09/598,443

Please search SEQ ID NOs:1 and 2 of 09/598,443 against commercial and interference data bases. thanks

Fozia Hamud
Patent Examiner
Remsen 4D64
Mail Box: Remsen 4C70
(571) 272-0884
Art Unit 1647

STAFF USE ONLY

Searcher: _____
Searcher Phone: 2- _____
Date Searcher Picked up: 7/25/05
Date Completed: 7/25/05
Searcher Prep/Rev. Time: _____
Online Time: _____

Type of Search

NA#: 1 AA#: 1
Interference: _____ SPDI: _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure#: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable

STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: PSH
WWW/Internet: _____
Other(Specify): Q2P

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

CM nucleic - nucleic search, using sw model

Run on: July 29, 2005, 20:14:15 ; Search time 5659 Seconds
(without alignments)
10557.569 Million cell updates/sec

Title: US-09-598-443-1

Perfect score: 1233
Sequence: 1 atgcacagatcgtcgtatgtag.....tgcacagatgtagtgcgtac 1233

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

- GenEmbl1:*
1: gb_ba:*
2: gb_ptg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pac:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
11: gb_str:*
12: gb_sy:*
13: gb_un:*
14: gb_vt:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	1233	100.0	1627	9	BC003591
4	1233	100.0	1657	9	AK172830
5	1233	100.0	1695	9	AK025099
6	1233	99.9	1659	6	AX058610
7	1230.4	99.8	1233	9	CR457338
8	1071.8	86.9	1649	6	AX201368
9	1071.8	86.9	1649	6	AX358342
10	860.2	69.8	1568	10	BC010806
11	856.6	69.5	1421	10	AF239957
12	826	67.0	1540	10	AF113795
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14	398	32.3	655	11	BV177172
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C	23	207.2	16.8	165000	9	AC137894	AC137894 Homo sapi
C	24	207.2	16.8	172449	2	AC142165	AC142165 Homo sapi
C	25	207.2	16.8	175416	2	AP006286	AP006286 Homo sapi
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ALIGNMENTS

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LOCUS	BD103586	SIGIRR DNA and polypeptide.	1233 bp	DNA	Linear	PAT 27-AUG-2002
DEFINITION	BD103586	SIGIRR DNA and polypeptide.	1233 bp	DNA	Linear	PAT 27-AUG-2002
ACCESSION	BD103586.1	GI:22649160				
VERSION	BD103586.1	GI:22649160				
KEYWORDS	JP 2001526892-A/1.					
SOURCE	JP 2001526892-A/1.					
ORGANISM	Homo sapiens (human)					
REFERENCE	1 (bases 1 to 1233)					
AUTHORS	Sims,J.E.					
TITLE	SIGIRR DNA and polypeptide					
JOURNAL	Patent: JP 2001526892-A 1 25-DEC-2001;					
COMMENT	IMMUNEX CORP					
OS	Homo sapiens (human)					
PN	JP 2001526892-A/1					
PD	25-DEC-2001					
PR	23-DEC-1998 JP 2000525545					
PI	JOHN ERNEST SIMS					
PC	C12N15/09,C07K14/715,C07K16/28,C12N1/15,C12N1/19,C12N1/21,PC					
PC	C12P21/02,C12P21/08,C12O1/37,G01N27/26,G01N27/447,C12N15/00,					
PC	C12N5/00,					
CC	G01N27/26					
CC	SIGIRR DNA and polypeptide					
FT	Key					
FT	source					
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ORIGIN						
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Best Local Similarity	100.0%;	Pred. No. 3,4e-182;				
Matches 1233;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;		

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QY 241 AGTGTCTTGGGGGTCAACGTGACAGACAGCTGAAGTCTATGGGGCTTCACTGTCTCATC 300
Db 241 AGTGTCTTGGGGGTCAACGTGACAGACAGCTGAAGTCTATGGGGCTTCACTGTCTCATC 300
QY 301 CAGAACATGAGCTTCT 360
Db 301 CAGAACATGAGCTTCT 360
QY 361 GCGGTGTGCT 420
Db 361 GCGGTGTGCT 420
QY 421 AAGTGTCTTCAACGTGTCTGTGTATCCAGAGCCGCTATGGGGAGGTGAGATTAAC 480
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QY 481 GAGGGGAGGCTTCAACGAGCTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 540
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Db 1141 CGAGAGAGGAGAGTGTGAGTCTTGTGATCTTGTGCTGTGCTGTGCTGTGCTGTGCTGTG 1200
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RESULT 2
BC025953
LOCUS
DEFINITION
Homo sapiens single Ig IL-1R-related molecule, mRNA (cDNA clone
MGC:39141 IMAGE:3939162), complete cds.
ACCESSION
BC025953
VERSION
BC025953.1 GI:19684156
KEYWORDS
MGC.
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 1618)
Straussberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,
Klausner, R.D., Collins, F.S., Wagner, K.H., Schaefer, C.F., Bhat, N.K.,
Altechul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K.,
Hopkins, R.F., Jordan, H., Moore, T., Max, S.I., Wang, D., Hsieh, F.,
Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,
Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S.,
Carinci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, P.J.,
McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Huiyk, S.W.,
Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Fahey, J., Helton, E., Kettelman, M., Madan, A., Rodriques, S.,
Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y.,
Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smalley, D.E.,
Scherer, A., Schein, J.E., Jones, S.J., and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
JOURNAL
MEDLINE
22388257
PUBMED
12477932
REFERENCE
2 (bases 1 to 1618)
Straussberg, R.
Direct Submission
Submitted (18-MAR-2002) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
NIH-MGC Project URL: <http://mgc.ncl.nih.gov>
Contact: MGC help desk
Email: cgabs-remail.nih.gov
Tissue Procurement: DCTD/DP
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Genome Sequence Centre,
BC Cancer Agency, Vancouver, BC, Canada
infobgsc.bc.ca
Steven Jones, Jennifer Aeano, Ian Bosdet, Yaron Butterfield,
Susanna Chan, Readman Chiu, Chris Fjell, Erin Garland, Ran Guin,
Leticia Heiao, Martin Krzywinski, Reta Kutsche, Oliver Lee, Soo
Sen Lee, Victor Ling, Carrie Mathewson, Candace McLeavy, Steven
Ness, Pawan Pandob, Anna-Liisa Prabhu, Parvaneh Saeeadi, Jacqueline
Schein, Duane Smalley, Michael Smith, Lorraine Spence, Jeff Strotz,
Michael Thorne, Miranada Tsai, Natasja van den Bosch, Jill Vardy,
George Yang, Scott Zuyderduyn, Marco Marra.

AUTHORS Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G., Klausner, R.D., Collins, F.S., Wagner, K.H., Shenn, C.M., Schler, G.D., Altschul, S.F., Zeeberg, B., Buetow, K.H., Schaefer, C.F., Bhat, N.K., Hopkins, R.F., Jordan, H., Moore, F., Max, S.I., Wang, J., Hahn, F., Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L., Stapleton, M., Soares, M.B., Bonaldi, M.F., Casavant, T.L., Schectz, P.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S., Caranci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J., Abramson, R.D., Mulhally, S.J., Bosak, S.A., McEwan, P.J., McKernan, K.J., Malek, J.A., Gunaratne, P.H., Richards, S., Worken, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W., Villalón, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A., Fahy, J., Helton, E., Kettman, M., Madan, A., Rodriguez, S., Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y., Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D., Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M., Butlerfield, Y.S., Krzywinski, M.I., Skalska, U., Smalins, D.E., Scherch, A., Schein, J.E., Jones, S.J., and Marra, M.A.

TITLE Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)

PUBMED 1247932

REFERENCE 2 (bases 1 to 1627)

AUTHORS Strausberg, R.

TITLE Direct Submission

JOURNAL Submitted (20-FEB-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2550, USA

REMARK NIH-MGC Project URL: <http://mgc.nci.nih.gov>

COMMENT Contact: MGC help desk
Email: cgabs-remail.nih.gov
Tissue Procurement: DCTD/DRP
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Genome Sequence Centre,
BC Cancer Agency, Vancouver, BC, Canada
info@cgsc.bc.ca

Steve Jones, Sarah Barber, Mabel Brown-John, Yaron Butlerfield, Andy Chan, Steve S. Chand, William Chow, Allison Cloutier, Ruth Featherstone, Malachi Griffith, Ohi Griffith, Ran Guin, Nancy Liao, Kim MacDonald, Amara Masson, Mike R. Mayo, Josh Moran, Ryan Morin, Teika Olson, Diana Palmquist, Anca Petrescu, Anna Lissa Prabhu, Parvaneh Saeedi, JR Santos, Angélique Scherch, Ursula Skalska, Duane Smalins, Jeff Stott, Miranda Tsai, George Yang, Jacquiné Schein, Asim Siddiqui, Rob Holt, Marco Marra.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: <http://image.llnl.gov>
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RESULT 4
AKI12830 1657 bp mRNA linear PRI 07-MAY-2004
LOCUS Homo sapiens cDNA FLJ23991 fls, clone HRC08504, highly similar to
DEFINITION Homo sapiens single IL-1R-related molecule (SIGIRR).
ACCESSION AKI12830
VERSION AKI12830.1 GI:47077852
KEYWORDS oligo capping; fls (full insert sequence).
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
Mutanabe,K., Kumagai,A., Itakura,S., Yamazaki,M., Tashiro,H.,
Oca,T., Suzuki,Y., Obayashi,M., Nishi,T., Shihahara,T., Tanaka,T.,
Nakanura,Y., Isega,T. and Sugano S.
NEBO human cDNA sequencing project
Unpublished
2 (bases 1 to 1657)
Sugano,S. and Suzuki,Y.
Direct Submission
Submitted (22-APR-2004) Sumio Sugano, Institute of Medical Science,
University of Tokyo, Laboratory of Genome Structure, Human Genome
Center, Shitokane-dai, 4-6-1, Minato-ku, Tokyo 108-8639, Japan
(E-mail:shichan@mail.fms.u-tokyo.ac.jp, Tel:81-3-5449-5286,
Fax:81-3-5449-5416)
NEBO human cDNA sequencing project supported by Ministry of
Economy, Trade and Industry of Japan; cDNA full insert sequencing;
Research Association for Biotechnology; cDNA library construction;
5 - & 3 - end one pass sequencing; Department of Virology and Human
Genome Center, Institute of Medical Science, University of Tokyo
(partly supported by Science and Technology Agency).
Location/Qualifiers
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Best Local Similarity 100.0%; Pred. No. 3 ie-182;
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Db 121 CACTGCTCCCTGACCTTCACTCACTGAGTGAAGAGCGGCTTCCATTGGGAATTGGGGCC 180
Qy 347 CACTGCTCCCTGACCTTCACTCACTGAGTGAAGAGCGGCTTCCATTGGGAATTGGGGCC 406
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ACCESSION AK025099
VERSION AK025099.1 GI:10437546
KEYWORDS oligo cloning; fib (full insert sequence).
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS Kawabata, A., Hikiji, T., Kobatake, N., Inagaki, H., Ikema, Y.,
Okamoto, S., Okitani, R., Ota, T., Suzuki, Y., Obayashi, M., Nishi, T.,
Shibahara, T., Tanaka, T., Nakamura, Y., Isogai, T. and Sugano, S.
NEDO human cDNA sequencing project
Unpublished
2 (bases 1 to 1695)
Sugano, S., Suzuki, Y., Ota, T., Obayashi, M., Nishi, T., Isogai, T.,
Shibahara, T., Tanaka, T. and Nakamura, Y.
Direct Submission
Submitted (29-AUG-2000) Sumio Sugano, Institute of Medical Science,
University of Tokyo, Laboratory of Genome Structure Analysis, Human
Genome Center, Shirokane-dai, 4-6-1, Minato-ku, Tokyo 108-8639,
Japan (E-mail: flcdna@ims.u-tokyo.ac.jp, Tel: 81-3-5449-5286,
Fax: 81-3-5449-5416)

COMMENT
NEDO human cDNA sequencing project supported by Ministry of
International Trade and Industry of Japan; cDNA full insert
sequencing: Research Association for Biotechnology; cDNA library
constructing: 5'- & 3'-end one pass sequencing: Department of
Virology and Human Genome Center, Institute of Medical Science,
University of Tokyo (partly supported by Science and Technology
Agency).

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ORIGIN

Query Match 100.0%; Score 1233; DB 9; Length 1695;
Best Local Similarity 100.0%; Pred. No. 3.1e-182;
Matches 1233; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db		1367	CGAGCAGAGGAAGTGAAGCTCTCGAATCTCGGCTCGCGAATACTAGTGCCCGCACAGAC	1422
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ACCESSION	AX058610			
VERSION	AX058610.1	GI:12310952		
KEYWORDS				
SOURCE	Homo sapiens (human)			
ORGANISM	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.			
REFERENCE	1 Shinketsu R.A., Fernandes E., Herman J. and Vernet C. Polynucleotides and membrane-bound polypeptides encoded thereby Patent: WO 0075321-A 17 14-DEC-2000; Curagen Corporation (US) Location/Qualifiers			
JOURNAL				
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Db	484	AGT	GTCTGG	GGGT	CA	AGTGA	CCAG	CA	CTGA	AGTCTA	TGG	GG	CTTCA	CTT	GC	543	
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CR457338
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ACCESSION CR457338 GI:48146792
VERSION CR457338.1
KEYWORDS Full ORF shuttle clone, Gateway(TM), complete cds.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
REFERENCE 1 (bases 1 to 1233)
AUTHORS Ebert,L., Schick,M., Neubert,P., Schatten,R., Henze,S. and Korn,B.
TITLE Cloning of human full open reading frames in Gateway(TM) system entry vector (pDONR201)
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 1233)
AUTHORS Ebert,L., Schick,M., Neubert,P., Schatten,R., Henze,S. and Korn,B.
TITLE Direct Submission
JOURNAL Submitted (03-JUN-2004) RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH, Im Neuenheimer Feld 580, D-69120 Heidelberg, Germany
COMMENT RZPD; RZPD0834H0613D, ORFNO 2417
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Human Full ORF Clones Gateway(TM) - RZPD (Kan-resist.) RZPD LIB No. 834
www.rzpd.de/cgi-bin/products/bhowlib.pl.cgi?response?libNo=834
www.rzpd.de/products/orfclones/
Contact: Inge Airlart
RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH,
Heuberweg 6, D-14059 Berlin, Germany
Tel: +49 30 32639 100
Fax: +49 30 32639 111
www.rzpd.de
This clone is available from RZPD;
contact RZPD (customer.service@rzpd.de) for further information.
This CDS clone is a part of a collection of human full length expression clones generated by RZPD.
This CDS has been cloned incl. stopcodon.
The CDS has been inserted into pDONR201 via a BP Clonase(TM) reaction. Additional sequence has been added in front of the start codon: att. AAAAAA GCA GGC (ATG).
The last base of the last coding triplet has been changed to T, which might lead to an amino acid change at the C terminus of the polypeptide.
The stop codon has been set to TAA followed by
TTAACCCAGCTTCTT. att. Compared to the reference sequence NM_021805 we found an amino acid exchange(s) at position (first base of changed triplet): 1228(met->ile)
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ORIGIN

Query Match 99.8%; Score 1230.4; DB 9; Length 1233;
Best Local Similarity 99.9%; Pred. No. 8.6e-182;
Matches 1231; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGCCAGGTCGTGATAGTGGGCCCCGTGCTTCCTCCCGCTGAAGCCAGGTCGTG 60
Db 1 ATGCCAGGTCGTGATAGTGGGCCCCGTGCTTCCTCCCGCTGAAGCCAGGTCGTG 60

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QY 301 CAGACATCACTTCTCTCTCTTCACTTTCAGAGAGCTGGCCCTTCAAGCCACGTCGCT 360
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QY 721 AGCTTCGAGGAGGCTGTGCGCGGCTGTCGAGCTGACCGGACCGGACCGGACCGGACCGG 780
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DB	1257	CACGGCAGTGAATGATGTCTCTGACCTCGGCTCTCGAAACTACATGACGACGAC	1316
QY	1201	TTCTACTGCTGGTGTCCAGAGTATGTAG	1233
DB	1317	TTCTACTGCTGCTGTCTGAGGATGATGTAG	1349
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ACCESSION	AF239957		
VERSION	AF239957.1	GI:7271942	
KEYWORDS			
SOURCE	Mus musculus (house mouse)		
ORGANISM	Mus musculus		
REFERENCE	AF239957	1421 bp	mRNA
AUTHORS	Mus musculus single Ig IL-1R-related protein mRNA, complete cds.		
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AUTHORS			
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ORIGIN			
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Best Local Similarity	81.5%	Pred. No. 1,1e-123;	
Matches 1004;	Conservative 0;	Mismatches 225;	Indels 3; Gaps 1;
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DB	109	ATGGCAGGTGTGTGATAGTGGCCCTTAATTTCTTCCCATCTGAAGACAGGCTTGG	168
QY	61	AGGCTGCTTGGGCAAGCTCAATGGCTTGAACTCACAGCGCTTGGGTAGTCTTGGGCC	120
DB	169	GGTCTTGGCCCTTGGGCAAGAAATTGTAATTGACACAGCTTGGGTGTCTTCAAGCCC	228
QY	121	CAGTGTCCCTGCTTGGGCAAGCTCAATGGCTTGAACTCACAGCGCTTGGGTAGTCTTGGGCC	180
DB	229	CAGTGTCCCTGCTTGGGCAAGCTCAATGGCTTGAACTCACAGCGCTTGGGTAGTCTTGGGCC	288
QY	181	CAGTGTCCCTGCTTGGGCAAGCTCAATGGCTTGAACTCACAGCGCTTGGGTAGTCTTGGGCC	240
DB	289	CAGTGTCCCTGCTTGGGCAAGCTCAATGGCTTGAACTCACAGCGCTTGGGTAGTCTTGGGCC	345
QY	241	AGTGTCTTGGGGGTCAAGTCAAGCTCAAGCTCAAGCTCAAGCTCAAGCTCAAGCTCAAGCT	300

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Db	1365	AGCTGGCCCTGCTCCGGGAAAGGTGCGCTACAGGCCGTGGAMAGAAACCCCAAGACGACGC	1424
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Db	1425	TGCAGGAGCAGCAAGGACCCCATGTGTGATTTCTTCGAGGCCGAGTCCCTGAGGGCCGGGGCC	1488
Qy	1031	TGCACTCAGAGGTGAGCCCGGACCTTGAGGGCGAGCTTGATGTCCGGGGCCCTGTATTTTG	1090
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Qy	1091	GAGAGCCATCAGCTCCACCGCACCAATGGGGGTCCCTGGGAGAGCCGGAGACAGC	1155
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Qy	1151	AAGTGGAGGTCTCGGATCTCGGCTTCGCAAACTACAGTGCCCGCACAGACTTCTACTGCC	1210
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QY	883	CCTTCTCCGATTTTGGAAAGATGCAGCTGGGCTGCCCGGAAAGCTGCGTACAGG	942
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QY	943	CCGGTGAAGAGAGACCCCGACGCGAGCTGCAGAGCAGCAAGAGACCCCATGCTTCTT	1002
Db	491	CCTGTGAAGAGAGACCCCGACGCGAGCTGCAGAGCAGCAAGAGACCCCATGTGATTCTT	432
QY	1003	CGAGGCCAGTCTCTGAGGGCCGGGCTCTGACTCAGAGGTGAGACCCGAGCCCTGAGGGC	1062
Db	431	CGAGGCCAGTCTCTGAGGGCCGGGCTCTGACTCAGAGGTGAGACCCGAGCCCTGAGGGC	372
QY	1063	GACCTGGGGTGCCGGGGGCTGTGTTTGGAGAGCATAGGCTCCACCGCACACCAAGTGGG	1122
Db	371	GACCTGGGGTGCCGGGGGCTGTGTTTGGAGAGCATAGGCTCCACCGCACACCAAGTGGG	312
QY	1123	GTTCTGCTGGAGAGAGCCGAGAGCCGAAAGTGAAGTCTTGAGTCTTGCGCTCGGAAC	1182
Db	311	GTTCTGCTGGAGAGAGCCGAGAGCCGAAAGTGAAGTCTTGAGTCTTGCGCTCGGAAC	252
QY	1183	TACAGTGGCCCAAGACTTCTACTGCTCGTGTGTCGAAGAGATGATATAG	1233
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LOCUS	BV177172/c
DEFINITION	BV177172 655 bp DNA linear STS 10-JUN-2004 sqgm93226 Human DNA (Sequenciom) Homo sapiens STS genomic, sequence tagged site.
ACCESSION	BV177172
VERSION	BV177172.1
KEYWORDS	GI:4801190
SOURCE	STS.
ORGANISM	Homo sapiens (human)
REFERENCE	Homo sapiens
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 655) Nelson,R.M., Marnellio,G., Kammerer,S., Hoyal,C.R., Shi,M.M., Cantor,C.R. and Braun,A. Large-Scale Validation of Single Nucleotide Polymorphisms in Gene Regions Genome Res. (2004) In press
TITLE	
JOURNAL	
COMMENT	

RESULT 15				PAT 22-NOV-2002
AX525866				
LOCUS	AX525866	641 bp	DNA	linear
DEFINITION	Sequence 388 from Patent WO02066682.			
ACCESSION	AX525866			
VERSION	AX525866.1	GI:25170744		
KEYWORDS				
SOURCE				
ORGANISM	Rattus norvegicus (Norway rat)			
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	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;			
	Rattus.			
REFERENCE	1			
AUTHORS	Farris,G., Hicken,S.H. and Parr,S.B.			
TITLE	Rat toxicologically relevant genes and uses thereof			
JOURNAL	Patent: WO 02066682-A 388 29-AUG-2002;			
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Pharmaceuticals division
Sequenom, Inc.
3595 John Hopkins Court, San Diego, CA 92121, USA
Tel.: 18582029018
Fax: 18582029020
Email: abraun@sequenom.com
Primer A: No primer sequence submitted
Primer B: No primer sequence submitted
STS size: 655.

Location/Qualifiers

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STS
ORIGIN

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	Matches 454;	Conservative 0;	Mismatches 104;	Indels 0;	Gaps 0;
QY	673 ATCGTGGTCTTTTGGAGCGCTTCTGTAGCGGGGCTGTGTGACCAACGTTCCGGAG	732			
DB	84 ATCGTGGTCTTTTAGATGCTTCTCAGAGTGTCTGTGTATACAGAGCTTCCGGAG	143			
QY	733 GGCGTGTGCGGGCTGTGTGAGCTCACCGCGAGACCAATCTTCAATCACCTTGGAGGCGAG	792			
DB	144 GGACTGTGCGCGCTACTGTGAGCTACCGCGAGACTTATCTTTATACACTTGTGAGGGCGAG	203			
QY	793 AGGCGCGACCCCGCGACCCCGGCGCTCGCTGTGTGCGCGACCGCGCACTGTGTATCC	852			
DB	204 AGGCGTGTGAGCCATTACACCTGTGCTGTCTGTCTGTGTGCGCGAGACCGCGCACTGTGTATCC	263			

Query Match	32.3%	Score 398	DB 11	Length 655
Best Local Similarity	97.8%	Pred. No. 2.7e-52		
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Qy	823	CTGCTGGCCAGACCCGCCACCTGTGTGACCTTGTCTGTCTGTGAGGCCCGGCTTCGTGACT	882
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Db 264 CTGCTGCTTTGGAAAGCTGAGCTCCGATACACTTCTCTGTATTTTGGAAAGACTCTACG 323

QY 913 CTGGCGCTGCCCGGAAGGTGTCGGGTACAAGCTGGTGGAAAGAGACCCCTCAGACGACCTG 972

Db 324 TTGGCACTTACACAGGAAGGTGCATTAACAGACCGGTGAGGGAGAGACCCCTCAATCCGACCTT 383

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Search completed: July 30, 2005, 00:04:23
 Job time : 5666 secs

to identify human chromosome 11, to map genes on this chromosome and to identify disease-related genes (particularly in the region 11p15.5 where CC genes are present associated with e.g. arthrogryposis multiplex congenita, breast cancer, insulin-dependent diabetes, sickle cell anaemia, bladder cancer), including detection of defective genes; (c) to study cell-signal transduction and the Sigrir system, and (d) in gene therapy. Sense and antisense oligonucleotides can be used to inhibit expression of the Sigrir gene. The proteins of the invention are used: (i) to study cellular processes (immune regulation, proliferation, death, migration, interaction with other cells and inflammation); (ii) to identify and purify proteins that associate with Sigrir ligands and receptors, and to measure their biological activity; (iii) in screening for, and rational design of, potential inhibitors of activity; (iv) therapeutically against diseases mediated by Sigrir polypeptide counter-structures; (v) as molecular weight (m.w.) markers in electrophoresis; (vi) for determining isoelectric points of unknown proteins; (vii) as controls for determining the extent of protein fragmentation (e.g. to aid characterization of protein structures by mass spectrometry); (viii) for generation of antibodies (Ab); (ix) to deliver diagnostic or therapeutic agents to cells that express Sigrir binding molecules

Sequence 1233 BP, 203 A, 408 C, 380 G, 242 T, 0 U, 0 Other:

Query Match 100.0%; Score 1233; DB 2; Length 1233;
Best Local Similarity 100.0%; Pred. No. 1, 1e-236;
Matches 1233; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 AGGCGTCCCTTGGGAGCTCAGTGGCTGTGACTGACGCGCTTGGGAGTGTGAGGCC 120
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RESULT 2
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AC ADPS4077;
XX
DT 18-NOV-2004 (first entry)
XX
XX
DE Human PRO cDNA sequence SEQ ID NO:53.
DE
XX
KW human; PRO; immune related disease; inflammatory immune response;
KW immune response stimulation; anti-allergic; anti-anemic; anti-arthritic;
KW antidiabetic; antidiabetic; anti-inflammatory; antiproliferative;
KW antineoplastic; antineoplastic; CNS; dermatological; gastrointestinal;
KW haemostatic; hepatotropic; immunostimulant; immunosuppressive; muscular;
KW nephrotropic; neuroprotective; osteopathic; respiratory; vasotropic;
KW virucide; gene therapy; gene; ss.
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XX MO2004039956-A2.
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XX PD 13-MAY-2004.
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XX PF 28-OCT-2003; 2003WO-US034381.
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XX PR 29-OCT-2002; 2002US-0422472P.
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XX PA (GENT ) GENENTECH INC.
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XX PI Aggarwal S, Clark H, Gurney AL, Schoenfeld J, Williams PM;
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XX WI Wood WI, Wu TD;
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XX WPI; 2004-376182/35.
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KW chronic inflammatory demyelinating polyneuropathy.
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PN
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XX 06-NOV-2003; 2003MO-US035268.
PF
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PR
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PA
XX Fong S, Dennis K, Clark H, Chiu H, Schoenfeld J, Williams PM,
PI Wood WI, Wu TD,
DR MPI; 2004-42067/39.
DR P-PSDB; ADO20095.
XX
XX
PT Novel PRO polypeptide e.g., PRO69614, PRO71106, or PRO86388 useful for
PT treating an immune related disorder such as systemic lupus erythematosus,
PT rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis or
PT spondyloarthritis.
XX
XX
PS Claim 1; SEQ ID NO 1058; 1731bp; English.
XX
XX The invention relates to human PRO polypeptides and the polynucleotides
CC encoding them. The polypeptides and polynucleotides are useful for
CC treating and diagnosing immune related disorders in mammals. The immune
CC related disorders include systemic lupus erythematosus, rheumatoid
CC arthritis, osteoarthritis, juvenile chronic arthritis, systemic
CC sclerosis, Sjogren's syndrome, vasculitis, sarcoidosis, autoimmune
CC haemolytic anaemia, autoimmune thrombocytopenia, thyroiditis, diabetes
CC mellitus, immune-mediated renal disease, demyelinating diseases of the
CC central or peripheral nervous system, demyelinating polyneuropathy,
CC Guillain-Barre syndrome and chronic inflammatory demyelinating
CC polyneuropathy. This sequence represents a human PRO polynucleotide of
CC the invention.
XX
XX
SQ Sequence 1695 BP; 329 A; 556 C; 510 G; 300 T; 0 U; 0 Other:
Query Match 100.0%; Score 1233; DB 12; Length 1695;
Best Local Similarity 100.0%; Pred. No. 1.1e-236;
Matches 1233; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGCCAGGTGTCTGTGATAGGGCCCTGACTTCTCTCCCGTCTGAAGCCAGGTGCTG 60
DB 227 ATGCCAGGTGTCTGTGATAGGGCCCTGACTTCTCTCCCGTCTGAAGCCAGGTGCTG 286
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DB 287 AGGCTGCTTGGGAGCTCAGTGGCTGTGAACGTGACGGCTTGGGAGTCTTGAGGCC 346
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QY 781 TTGAGAGGCGAGAGGCGGACCCCGGACCCCGGCGCTCGGCTGTGCGGCGGACGCGC 840
DB 1007 TTGAGAGGCGAGAGGCGGACCCCGGACCCCGGCGCTCGGCTGTGCGGCGGACGCGC 1066
QY 841 CACTGTGTACCTTGTCTGTGAGAGCGGCTCCGCTCGGTACTCTTCTCGATTTTGTG 900
DB 1067 CACTGTGTACCTTGTCTGTGAGAGCGGCTCCGCTCGGTACTCTTCTCGATTTTGTG 1126
QY 901 AAAAGAGTCACTGTGCGCTGCGCGGAGGTGCGGTACAGGCGGCTGGAAGAGACCC 960
DB 1127 AAAAGAGTCACTGTGCGCTGCGCGGAGGTGCGGTACAGGCGGCTGGAAGAGACCC 1186
QY 961 CAGACGACCTGACGAGACGACCAAGGACCCCATGTCTGATCTTCTGAGGCGGACCTGAG 1020
DB 1187 CAGACGACCTGACGAGACGACCAAGGACCCCATGTCTGATCTTCTGAGGCGGACCTGAG 1246
QY 1021 GCGCGGCGCTTGTGACTCAGAGGTGACCCGACCCCTGAGGCGGACCTTGTGCGGGG 1080
DB 1247 GCGCGGCGCTTGTGACTCAGAGGTGACCCGACCCCTGAGGCGGACCTTGTGCGGGG 1306
QY 1081 CCTGTTTTTGGAGAGCATCACTCCACCGCACCAAGTGGGCTTCTGCGGAGAGAGC 1140
DB 1307 CCTGTTTTTGGAGAGCATCACTCCACCGCACCAAGTGGGCTTCTGCGGAGAGAGC 1366
QY 1141 CGAGACGAGGAGTGAAGTCTCGGATCTCGGCTCGCGAAACTTACAGTGCCTGACAGAC 1200
DB 1367 CGAGACGAGGAGTGAAGTCTCGGATCTCGGCTCGCGAAACTTACAGTGCCTGACAGAC 1426
QY 1201 TTCTACTGCTGTGTCTCAAGAGTATATGAG 1233
DB 1427 TTCTACTGCTGTGTCTCAAGAGTATATGAG 1459
RESULT 4
AD019086
ID AD019086 standard; cDNA; 1695 BP.
XX
XX AD019086;
AC
XX 12-AUG-2004 (first entry)
DT
XX
XX Human PRO polynucleotide #12.
DE
XX
XX Human: PRO; gene; ss; immune related disorder;
KW systemic lupus erythematosus; rheumatoid arthritis; osteoarthritis;
KW juvenile chronic arthritis; systemic sclerosis; Sjogren's syndrome;
KW vasculitis; sarcoidosis; autoimmune haemolytic anaemia;
KW autoimmune thrombocytopenia; thyroiditis; diabetes mellitus;

KM antipeptidic; antiallergic; antiaesthetic; hepatotropic; respiratory;
KM gene therapy; immune system.
XX Unidentified.
OS
XX WO2004041170-A2.
XX
XX 21-MAY-2004.
XX
XX 30-OCT-2003; 2003WO-US034312.
XX
XX 01-NOV-2002; 2002US-0423394P.
XX
XX (GENTH) GENENTECH INC.
PI Clark H, Schoenfeld J, Van Lookeren M, Williams PM, Wood WI;
PI Wu TD;
XX WPI; 2004-419628/39.
XX P-PSDB; ADP22970.
XX
XX New PRO polypeptides and polynucleotides, useful for treating e.g.
PT erythematous, rheumatoid arthritis, diabetes mellitus, immune-mediated
PT renal disease, or demyelinating diseases of the central or peripheral
PT nervous system.
XX
XX Claim 1; SEQ ID NO 63; 2940bp; English.
XX
XX The invention relates to a novel isolated nucleic acid and the PRO
CC polypeptide encoded by it. A protein of the invention has
CC antiinflammatory, antiarthritic, antirheumatic, immunosuppressive,
CC osteopathic, antidiabetic, dermatological, antipeptidic, antiallergic,
CC antiaesthetic, hepatotropic, and respiratory activity. A polynucleotide
CC of the invention may have a use in gene therapy. The PRO polypeptide, its
CC agonist, antagonist, or antibody that specifically binds to the
CC polypeptide is useful for treating an immune related disorder such as
CC systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis,
CC juvenile chronic arthritis, a spondyloarthropathy, systemic sclerosis, an
CC idiopathic inflammatory myopathy, Sjogren's syndrome, systemic
CC vasculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune
CC thrombocytopenia, thyroiditis, diabetes mellitus, immune-mediated renal
CC disease, a demyelinating disease of the central or peripheral nervous
CC system, idiopathic demyelinating polyneuropathy, Guillain-Barre syndrome,
CC a chronic inflammatory demyelinating polyneuropathy, a hepatobiliary
CC disease, infectious or autoimmune chronic active hepatitis, primary
CC biliary cirrhosis, granulomatous hepatitis, sclerosing cholangitis,
CC inflammatory bowel disease, gluten-sensitive enteropathy, Whipple's
CC disease, an autoimmune or immune-mediated skin disease, a bullous skin
CC disease, erythema multiforme, contact dermatitis, psoriasis, an allergic
CC hypersensitivity, urticaria, an immunologic disease of the lung,
CC eosinophilic pneumonia, idiopathic pulmonary fibrosis, hypersensitivity
CC pneumonitis, a transplant-associated disease, graft rejection or
CC graft-versus-host disease. The present sequence encodes a PRO protein of
CC the invention.
XX
XX
SQ Sequence 1695 BP; 329 A; 556 C; 510 G; 300 T; 0 U; 0 Other:
Query Match 100.0%; Score 1233; DB 13; Length 1695;
Best Local Similarity 100.0%; Pred. No. 1.1e-236;
Matches 1233; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGCCAGGTGCTGTGATAGAGGCCCTGACTCTCTCCCGCTGAAGCAGAGTGTG 60
DB ATGCCAGGTGCTGTGATAGAGGCCCTGACTCTCTCCCGCTGAAGCAGAGTGTG 286
QY 61 AGGCTGCTCTTGAGAGCTCAGTGTCTTGAACGTGACGCGCTTGAGTGTCTGAGGCC 120
DB AGGCTGCTCTTGAGAGCTCAGTGTCTTGAACGTGACGCGCTTGAGTGTCTGAGGCC 346
QY 121 CACTGCTCCTGCTTCACTGCTCAGTGTGCTGAAGAGCGGCTTCCATTGGAGATTGGGGGC 180
DB CACTGCTCCTGCTTCACTGCTCAGTGTGCTGAAGAGCGGCTTCCATTGGAGATTGGGGGC 406

QY 181 CACTACAGCCTCAGAGTACTCTGGGTCAGAGGCCCACTGTGACAGAGGTCCTGTGCC 240
DB CACTACAGCCTCAGAGTACTCTGGGTCAGAGGCCCACTGTGACAGAGGTCCTGTGCC 466
QY 241 AGTGTCTTGAGGAGTCAACGTGACCAAGCACTGAAGTCTATGGGACCTTCACTGTGCATC 300
DB AGTGTCTTGAGGAGTCAACGTGACCAAGCACTGAAGTCTATGGGACCTTCACTGTGCATC 526
QY 301 CAGAACATCAGCTTCTCTCTTCACTCTTCAAGAGAGTGTGCTTCAAGCCACGTGGCT 360
DB CAGAACATCAGCTTCTCTCTTCACTCTTCAAGAGAGTGTGCTTCAAGCCACGTGGCT 586
QY 361 GCGGTGCTGAGCCTCCCTCTGTGCTGAGCCTGTGCTGTGAGCCGCTTCAATGTGTC 420
DB GCGGTGCTGAGCCTCCCTCTGTGCTGAGCCTGTGCTGTGAGCCGCTTCAATGTGTC 646
QY 421 AAGTCCGCTCAACGTGTGCTGTGTACAGAGACGCTATGTGGAGGTGAGATTAAC 480
DB AAGTCCGCTCAACGTGTGCTGTGTACAGAGACGCTATGTGGAGGTGAGATTAAC 706
QY 481 GACGGAGACTCTACAGACCTTACGTCTCTTACAGGACTGTGCCGAGACCGCAAGTTC 540
DB GACGGAGACTCTACAGACCTTACGTCTCTTACAGGACTGTGCCGAGACCGCAAGTTC 766
QY 707 GACGGAGACTCTACAGACCTTACGTCTCTTACAGGACTGTGCCGAGACCGCAAGTTC 766
QY 541 GTGAACCTCATCTTAAAGCCGAGCTGAGCGGCGCTGAGGAGCTTCTCTGTGAC 600
DB GTGAACCTCATCTTAAAGCCGAGCTGAGCGGCGCTGAGGAGCTTCTCTGTGAC 826
QY 601 GACCGGAGCTCTGTGCGCGCTGAGACCTTCCGCGCACTTGTGTGAACCTGAGCCGC 660
DB GACCGGAGCTCTGTGCGCGCTGAGACCTTCCGCGCACTTGTGTGAACCTGAGCCGC 886
QY 661 TGCCGAGCTCATGTGTGCTTTTGAGACGCTTCTTAAGCCGCGCTGTGTGACACCC 720
DB TGCCGAGCTCATGTGTGCTTTTGAGACGCTTCTTAAGCCGCGCTGTGTGACACCC 946
QY 721 AGCTTCGAGGAGGCGCTGTGCGGCTGTGAGCTCAACCGGAGCACTTCACTACCC 780
DB AGCTTCGAGGAGGCGCTGTGCGGCTGTGAGCTCAACCGGAGCACTTCACTACCC 1006
QY 781 TTGAGAGGCTCAGAGGCGGACCCCGGACCCGCGCTCCGCTGTGCGCGGACGACCCG 840
DB TTGAGAGGCTCAGAGGCGGACCCCGGACCCGCGCTCCGCTGTGCGCGGACGACCCG 1066
QY 1007 TTGAGAGGCTCAGAGGCGGACCCCGGACCCGCGCTCCGCTGTGCGCGGACGACCCG 1066
DB 841 CACTGTGTACTTGTGTCTGTGAGGCGGCGCTCCGCTCACTTCTTCCATTTTGG 900
QY 1067 CACTGTGTACTTGTGTCTGTGAGGCGGCGCTCCGCTCACTTCTTCCATTTTGG 1126
QY 901 AAAAGAGTCACTGAGCGCTGCGCGGAGGTGCGGTACAGGCGGCTGAGAGGAGACCC 960
DB AAAAGAGTCACTGAGCGCTGCGCGGAGGTGCGGTACAGGCGGCTGAGAGGAGACCC 1186
QY 1127 AAAAGAGTCACTGAGCGCTGCGCGGAGGTGCGGTACAGGCGGCTGAGAGGAGACCC 1186
DB 961 CAGAGCAGCTTCAAGAGCAGCAAGACCCCATGTGTATTTCTTGAGGCGGAGTCCCTGAG 1020
QY 1187 CAGAGCAGCTTCAAGAGCAGCAAGACCCCATGTGTATTTCTTGAGGCGGAGTCCCTGAG 1246
QY 1021 GGCCTGGGCTTGAATCAAGAGTGTGACCGGACCCCTGAAGGCGGACCTTGGGTGTCCGGGG 1080
DB GGCCTGGGCTTGAATCAAGAGTGTGACCGGACCCCTGAAGGCGGACCTTGGGTGTCCGGGG 1306
QY 1247 GGCCTGGGCTTGAATCAAGAGTGTGACCGGACCCCTGAAGGCGGACCTTGGGTGTCCGGGG 1306
DB 1081 CCTGTTTTTGAAGAGCATCAGTCCACCGGACCAAGTGTGGGCTTCGCTGGAGAGAGC 1140
QY 1307 CCTGTTTTTGAAGAGCATCAGTCCACCGGACCAAGTGTGGGCTTCGCTGGAGAGAGC 1366
QY 1141 CGAGCAGGAAAGTGTGACCTTCCGATCTCGGCTTCGAACTCAAGTGTCCGACAGAC 1200
DB CGAGCAGGAAAGTGTGACCTTCCGATCTCGGCTTCGAACTCAAGTGTCCGACAGAC 1426
QY 1367 CGAGCAGGAAAGTGTGACCTTCCGATCTCGGCTTCGAACTCAAGTGTCCGACAGAC 1426
QY 1201 TTCTACTGCTGTGTGTCGAAGATGATATGTAG 1233
DB 1427 TTCTACTGCTGTGTGTCGAAGATGATATGTAG 1459

QY 1201 TTCTACTGCTGTGTCACAGATGATATGATAG 1233
DB 1444 TTCTACTGCTGTGTCACAGATGATATGATAG 1476

RESULT 7
ACD40262
ID ACD40262 standard; DNA; 1659 BP.
XX
XX ACD40262;
XX
DT 03-SEP-2003 (first entry)
XX
XX Human breast tumour associated protein 47-like polypeptide NOV9 DNA.

XX Tissue typing; cancer; breast cancer; colon cancer; lung cancer; sarcoma;
XX pancreatic cancer; uterine cancer; organ transplantation disorder; de;
XX cardiovascular disease; melanoma; atherosclerosis; diabetes mellitus;
XX ischaemic heart disease; haemorrhage; peripheral vascular disease; gene;
XX thrombosis; hypertension; systemic lupus erythematosus; haematopoiesis;
XX tissue regeneration; wound healing; hyperproliferative disorder;
XX psoriasis; neural disorder; Parkinson's disease; Alzheimer's disease;
XX Huntington's disease; multiple sclerosis; amyotrophic lateral sclerosis;
XX ALS; peripheral neuropathy; nervous system tumour; neurotoxin; tremor;
XX neuropathy; acute brain injury; peripheral nerve trauma; human; NOVX;
XX gene therapy; epilepsy; breast tumour associated protein 47.

XX Homo sapiens.
XX
XX US2003027158-A1.
XX
XX 06-FEB-2003.
XX
XX 15-OCT-2001; 2001US-00977418.
XX
XX 03-JUN-1999; 99US-0137322P.
XX 16-MAR-2000; 2000US-0189810P.
XX 22-MAR-2000; 2000US-0191158P.
XX 30-MAR-2000; 2000US-0193086P.
XX 03-MAY-2000; 2000US-0201388P.
XX 31-MAY-2000; 2000US-00584411.
XX
XX (CURA-) CURAGEN CORP.
XX
XX Shimketa RA, Fernandez E, Herrman J, Vernet C;
XX
XX WPI; 2003-492028/46.
XX P-SDB; ABO23241.
XX
XX New nucleic acid sequence encoding a human breast tumor-associated
XX protein 47-like polypeptide, useful for treating cardiovascular
XX disorders, neural disorders, diabetes mellitus and cancers.

XX
XX Disclosure; Page 23-25; 100p; English.

XX The invention relates to a new isolated NOV4 nucleic acid. The nucleic
XX acid is useful for identifying a compound that binds the nucleic acid.
XX The nucleic acid is useful in gene therapy, in screening assays, in
XX detection assays e.g. chromosomal mapping, cell and tissue typing and
XX forensic biology, predictive medicine e.g. diagnostic assays, prognostic
XX assays, monitoring clinical trials and pharmacogenomics and methods of
XX treatment including therapeutic and prophylactic. The nucleic acid is
XX also useful for expressing NOVX protein. The nucleic acid is also useful
XX to provide polynucleotide reagents e.g. labelled probes that are useful
XX in an in situ hybridisation technique, for identifying a specific tissue
XX (for example brain tissue) and for use in forensic science. The nucleic
XX acid is also useful for mapping genes on a chromosome and thus locating
XX gene regions associated with genetic disease, identifying an individual
XX from a minute biological sample and to aid in forensic identification of
XX biological sample. The nucleic acid is also useful for treating cancer,
XX especially cancers of the breast, colon, lung, pancreas or uterus, or a
XX melanoma or sarcoma. The nucleic acid is also useful for treating

CC disorders related to organ transplantation, cardiovascular diseases,
CC atherosclerosis, ischaemic heart disease, haemorrhage, diabetes mellitus,
CC peripheral vascular disease, thrombosis, hypertension and systemic lupus
CC erythematosus. NOVX protein encoded by the nucleic acid is useful for
CC regulating haematopoiesis, for regeneration of bone, cartilage, tendon
CC ligament and/or nerve tissue growth or regeneration and for wound
CC healing. The nucleic acid is also useful for treating infections,
CC hyperproliferative disorders e.g. psoriasis, and neural disorders
CC including Parkinson's disease, Alzheimer's disease, Huntington's disease,
CC multiple sclerosis, amyotrophic lateral sclerosis (ALS), peripheral
CC neuropathy, tumours of the nervous system, exposure to neurotoxins, acute
CC brain injury, peripheral nerve trauma or injury and other neuropathies,
CC epilepsy, and/or tremors. The present sequence represents DNA encoding a
CC human breast tumour associated protein 47-like polypeptide

XX Sequence 1659 BP; 295 A; 552 C; 504 G; 308 T; 0 U; 0 Other;

Query Match 99.9%; Score 1231.4; DB 9; Length 1659;
Best Local Similarity 99.9%; Pred. No. 2.3e-236;
Matches 1232; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGCCAGGTGTCTGTATATGGGCCCTGACTTCTCCCGCTTGAAGACCAAGTGTCTG 60
DB 244 ATGCCAGGTGTCTGTATATGGGCCCTGACTTCTCCCGCTTGAAGACCAAGTGTCTG 303

QY 61 AGGCGTGCCTTGGGGCAGCTCAGTGGCTTGAAGCTGACGAGGCTTGGTAGTCTTGGGGCC 120
DB 304 AGGCGTGCCTTGGGGCAGCTCAGTGGCTTGAAGCTGACGAGGCTTGGTAGTCTTGGGGCC 363

QY 121 CACTGTCTCCCTGCTTCACTCCAGTGCAGTGGCTGAAGAGCGGGCTTTCATTGGAGATTGGGGGC 180
DB 364 CACTGTCTCCCTGCTTCACTCCAGTGCAGTGGCTGAAGAGCGGGCTTTCATTGGAGATTGGGGGC 423

QY 181 CACTAGAGCTTCAAGAGATATCTCTTGGGTCAAGGCCAACCCTGTCAGAGGTCTTGTGTCC 240
DB 424 CACTAGAGCTTCAAGAGATATCTCTTGGGTCAAGGCCAACCCTGTCAGAGGTCTTGTGTCC 483

QY 241 AGTGTCTTGGGGGTCAAGGTGACACAGCATGAACTATATGGGGCTTTCAGTCTCATC 300
DB 484 AGTGTCTTGGGGGTCAAGGTGACACAGCATGAACTATATGGGGCTTTCAGTCTCATC 543

QY 301 CAGAACATGAGCTTCTCTCTTCACTCTTCAAGAGAGCTGGCCCTTCAAGCCAGCTGGCT 360
DB 544 CAGAACATGAGCTTCTCTCTTCACTCTTCAAGAGAGCTGGCCCTTCAAGCCAGCTGGCT 603

QY 361 GCGGTCTGAGCTTCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
DB 604 GCGGTCTGAGCTTCTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 663

QY 421 AAGTGCCTTCAAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480
DB 664 AAGTGCCTTCAAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 723

QY 481 GACGGAGAGCTTACAGAGCTTACGTCTCTTCAAGGAGCTGCCCGAGAGACCGCAAGTTTC 540
DB 724 GACGGAGAGCTTACAGAGCTTACGTCTCTTCAAGGAGCTGCCCGAGAGACCGCAAGTTTC 783

QY 541 GTGAACCTTCACTTAAAGCCGACGCTGAGAGCGGCTTGGGGCTTCAAGCTTCTCTGGAG 600
DB 784 GTGAACCTTCACTTAAAGCCGACGCTGAGAGCGGCTTGGGGCTTCAAGCTTCTCTGGAG 843

QY 601 GACGGAGAGCTTCTGCGCGCGCTGAGAGCTTCCGCGAGACCTTCTTGGTGAACCTGAGCGCG 660
DB 844 GACGGAGAGCTTCTGCGCGCGCTGAGAGCTTCCGCGAGACCTTCTTGGTGAACCTGAGCGCG 903

QY 661 TGGCGAGCGCTCATCGTGTGTCTTGGAGAGCGCTTCTTGAAGCGGGCTGTGACGAGCAC 720
DB 904 TGGCGAGCGCTCATCGTGTGTCTTGGAGAGCGCTTCTTGAAGCGGGCTGTGACGAGCAC 963

QY 721 AGCTTCCGGAGAGGGCTGTGCGGGCTGCTGAGACTCAACCGAGAGACCATTTCTTATACC 780
DB 964 AGCTTCCGGAGAGGGCTGTGCGGGCTGCTGAGACTCAACCGAGAGACCATTTCTTATACC 1023

Qy 781 TTGAGGAGCAGAGGCGGACCCCGGCGCTCCGCTGCTGCGCAGACCCG 840
Db 1224 TTGAGGAGCAGAGGCGGACCCCGGCGCTCCGCTGCTGCGCAGACCCG 1083
Qy 841 CACCTGGTGAACCTTGTCTGCTGGAAGCCCGGCTCCGCTGCTGCGATTTTGG 900
Db 1084 CACCTGGTGAACCTTGTCTGCTGGAAGCCCGGCTCCGCTGCTGCGATTTTGG 1143
Qy 901 AAAAAGTGCAGCTGCGCTCCCGGGAAGGTGGGTACAGCCGGTGGAAAGACCC 960
Db 1144 AAAAAGTGCAGCTGCGCTCCCGGGAAGGTGGGTACAGCCGGTGGAAAGACCC 1203
Qy 961 CAGACGCGTGCAGAGACGACAGACCCCAATGCTATTCTTCAAGGCGGATCCCTGAG 1020
Db 1204 CAGACGCGTGCAGAGACGACAGACCCCAATGCTATTCTTCAAGGCGGATCCCTGAG 1263
Qy 1021 GGGCGGGGCTTGAAGCTCAGAGGTGAGACCCGACCTTGAGGCGGACCTTGCTGGGGGG 1080
Db 1264 GGGCGGGGCTTGAAGCTCAGAGGTGAGACCCGACCTTGAGGCGGACCTTGCTGGGGGG 1323
Qy 1081 CTTGTTTTTGGAGAGCCATCAGCTTCACCGCACACAGTGGGGTCTGCTGGAGAGAGC 1140
Db 1324 CTTGTTTTTGGAGAGCCATCAGCTTCACCGCACACAGTGGGGTCTGCTGGAGAGAGC 1383
Qy 1141 CGGAGCAGCGAAGTGAAGTCTCGGATCTCGGGAATCTACGTGCCCGGACAGAC 1200
Db 1384 CGGAGCAGCGAAGTGAAGTCTCGGATCTCGGGAATCTACGTGCCCGGACAGAC 1443
Qy 1201 TTCTACTGCTGCTGCTGCTCAAGATGATATGTAG 1233
Db 1444 TTCTACTGCTGCTGCTGCTCAAGATGATATGTAG 1476
RESULT 8
ADM56382
ID ADM56382 standard; cDNA; 1659 BP.
XX
AC ADM56382;
DT 03-JUN-2004 (first entry)
DE Human cDNA encoding cell adhesion molecule NOVX.
XX
KM Human; BB; Gene; cell adhesion molecule; NOVX; cancer; leukemia;
KM lymphoma; melanoma; neurological disorder; epilepsy;
KM ischemic cerebrovascular disease; stroke; Alzheimer's disease;
KM Pick's disease; vesicular transport disorder; cystic fibrosis;
KM diabetes mellitus; Grave's disease; goiter; gastrointestinal disorder;
KM ulcerative colitis; gastric ulcer; duodenal disorder; autoimmune disease;
KM allergic reaction; autoimmune haemolytic anaemia; rheumatoid arthritis;
KM viral infection; bacterial infection; fungal infection;
KM helminthic infection; protozoal infections.
XX
OS Homo sapiens.
XX
PN US2003082554-A1.
XX
PD 01-MAY-2003.
PF 15-OCT-2001; 2001US-00977033.
XX
PR 03-JUN-1999; 99US-0137322P.
PR 16-MAR-2000; 2000US-0189810P.
PR 22-MAR-2000; 2000US-0191158P.
PR 30-MAR-2000; 2000US-0193086P.
PR 03-MAY-2000; 2000US-0201388P.
PR 31-MAY-2000; 2000US-00584411.
XX
PA (CURA-) CURAGEN CORP.
XX
PI Shimkets RA, Fernandes E, Herrman J, Vernet C;
XX
DR WPI, 2003-616079/58.

DR P-PSDB; ADM56381.
XX
PT New nucleic acids encoding human cell adhesion molecule-like proteins,
PT useful for treating e.g. cancers, neurological disorders, viral,
PT bacterial, fungal, helminthic and protozoal infections.
XX
PS Example 6; SEQ ID NO 17; 76bp; English.
XX
CC The invention relates to an isolated nucleic acid encoding a human cell
CC adhesion molecule-like protein, comprising a sequence encoding a
CC polypeptide having a sequence appearing as ADM56387, a sequence at least
CC 90% identical to the nucleic acid, a sequence encoding a polypeptide
CC having conservative amino acid substitutions to the protein or a fragment
CC comprising at least 20 nucleotides. Also included are an oligonucleotide
CC sequence that is complementary to (and hybridises under stringent
CC conditions with) the nucleic acid, a cell comprising the vector, a vector
CC comprising the nucleic acid, a cell comprising the vector, a
CC pharmaceutical composition comprising the nucleic acid and a
CC pharmaceutical carrier, a process for producing the polypeptide, a
CC process for identifying a compound that binds the nucleic acid, and a
CC compound identified by the process. Disclosed as new are the cDNA and
CC proteins for novel cell adhesion molecules (termed NOVX, being NOV1-23).
CC The NOVX polypeptide, nucleic acid or antibody are useful in the
CC manufacture of a medicament for treating a syndrome associated with a
CC human disease selected from NOVX-associated disorder, such as cancers
CC (e.g. leukemia, lymphoma, melanoma or cancer of the liver, lung, muscle,
CC ovary, testis and uterus), neurological disorders (e.g. epilepsy, Pick's
CC disease), disorders of vesicular transport (e.g. cystic fibrosis,
CC diabetes mellitus, Grave's disease, or goiter), gastrointestinal
CC disorders (e.g. ulcerative colitis, or gastric and duodenal disorders),
CC autoimmune diseases (e.g. allergic reactions, autoimmune haemolytic
CC anaemia, or rheumatoid arthritis), viral, bacterial, fungal, helminthic
CC and protozoal infections. The polypeptides can be used as immunogens to
CC produce antibodies and as vaccines. The sequences may further be used in
CC chromosome mapping, identifying individual from minute biological samples
CC (tissue typing), and in forensic identification of a biological sample.
CC NOTE: The authors have mis-labelled the sequences as they appear on pages
CC 12-28 of the patent. It is clear from table 3, the examples and the
CC claims that the SEQ ID numbers for the cDNAs should be the odd numbers
CC from 1-45 and the proteins should be the even numbers from 2-46. The
CC present sequence encodes a NOVX cell adhesion molecule of the invention.
XX
SQ Sequence 1659 BP; 296 A; 551 C; 504 G; 308 T; 0 U; 0 Other;
Query Match 99.9%; Score 1231.4; DB 11; Length 1659;
Best Local Similarity 99.9%; Pred. No. 2.3e-236;
Matches 1232; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 ATGCCAGGTGCTGTATAGAGGCCCTGACTTCTTCCCGGTGAAAGCAGGTGCTG 60
Db 244 ATGCCAGGTGCTGTATAGAGGCCCTGACTTCTTCCCGGTGAAAGCAGGTGCTG 303
Qy 61 AGGCGTGCCTTGGGACGCTCAGTGGCTCTGAATGACGAGCTGGAGTCTGGGGCC 120
Db 304 AGGCGTGCCTTGGGACGCTCAGTGGCTCTGAATGACGAGCTGGAGTCTGGGGCC 363
Qy 121 CACTGCTCCCTGCTCAGTCAAGTGGCTGAAAGCGGGCTTCCATTGGGAAATTTGGGGC 180
Db 364 CACTGCTCCCTGCTCAGTCAAGTGGCTGAAAGCGGGCTTCCATTGGGAAATTTGGGGC 423
Qy 181 CACTACAGCTCCACGAGTACTCTGGGTCAAGGCCAAGCTGTGACAGTGTGTGTC 240
Db 424 CACTACAGCTCCACGAGTACTCTGGGTCAAGGCCAAGCTGTGACAGTGTGTGTC 483
Qy 241 AGTGTCTGGGGGGTCAAGGACGACGAGTCAAGTCAATGGGGGCTTCACTGCTCATC 300
Db 484 AGTGTCTGGGGGGTCAAGGACGACGAGTCAAGTCAATGGGGGCTTCACTGCTCATC 543
Qy 301 CAGAACATCAGCTTCTCTCTTCACTTCAAGAGCTGACCTTCAAGCAGAGTGGCT 360
Db 544 CAGAACATCAGCTTCTCTCTTCACTTCAAGAGCTGACCTTCAAGCAGAGTGGCT 603

PT Novel substantially purified NOVX polypeptide for treating severe
PT combined immunodeficiency, candidiasis, cancer, asthma, multiple
PT sclerostis, systemic lupus erythematosus.

XX Disclousure; SEQ ID NO 17; 155pp; English.

PS
XX
CC The invention relates to human NOVX polypeptides and polynucleotides.
CC NOVX sequences are useful in the treatment of cancer, hyperproliferative
CC diseases, cirrhosis, keloid, psoriasis, tissue hypertrophy,
CC osteoarthritis, atherosclerotic plaque formation, haemorrhage, ischaemic
CC heart or renal disease, thrombosis, diabetes mellitus, hypertension,
CC hypohydridism, ascheia, burns, incisions, ulcers, periodontal disease,
CC Alzheimer's disease, Parkinson's disease, Huntington's disease,
CC amyotrophic lateral sclerosis, Shy-Drager syndrome, immune deficiencies
CC and disorders such as severe combined immunodeficiency (SCID), bacterial
CC infection, viral infection e.g. herpes viral infection, protozoan
CC infection e.g. malaria, fungal infection e.g. candidiasis, autoimmune
CC disorders such as connective tissue disease, multiple sclerosis, systemic
CC lupus erythematosus, rheumatoid arthritis, autoimmune pulmonary
CC inflammation, Guillain-Barre syndrome, autoimmune thyroiditis, insulin
CC dependent diabetes mellitus, myasthenia gravis, graft-versus-host disease
CC and autoimmune inflammatory eye disease. The invention is useful in
CC regeneration and tissue growth of bone, cartilage, tendon, ligament,
CC haematopoiesis regulation, wound healing and tissue repair. Sequences of
CC the invention also exhibit antitumor and antiinflammatory activities. The
CC present sequence is human NOVX DNA.

XX Sequence 1659 BP; 296 A; 551 C; 504 G; 308 T; 0 U; 0 Other;

Query Match 99.9%; Score 1231.4; DB 12; Length 1659;
Best Local Similarity 99.9%; Pred. No. 2.3e-236;
Matches 1232; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATGCCAGTGTCTGTATAGAGCCCTGACTTCTCTCCCGCTGAAGACAGAGTCTG 60
DB 244 ATGCCAGTGTCTGTATAGAGCCCTGACTTCTCTCCCGCTGAAGACAGAGTCTG 303
QY 61 AGGCTGAGCTTGGGAGAGCTCAGTGGCTTGAAGCTGACGAGCTTGGAGCC 120
DB 304 AGGCTGAGCTTGGGAGAGCTCAGTGGCTTGAAGCTGACGAGCTTGGAGCC 363
QY 121 CACTGCTCCTGCTTCACTGCTCAGTGGCTGAAGAGCGGCTTCATTGGGAATGGGAGC 180
DB 364 CACTGCTCCTGCTTCACTGCTCAGTGGCTGAAGAGCGGCTTCATTGGGAATGGGAGC 423
QY 181 CACTACAGCCTTCAAGAGTCTCTGCTGAAGGCCAAGCTTCAAGAGTCTTGTCTC 240
DB 424 CACTACAGCCTTCAAGAGTCTCTGCTGAAGGCCAAGCTTCAAGAGTCTTGTCTC 483
QY 241 AGTGTCTGGGGGTCAAGCTGACGAGCTGAAGTCTATGGAGCTTCACTGCTCATC 300
DB 484 AGTGTCTGGGGGTCAAGCTGACGAGCTGAAGTCTATGGAGCTTCACTGCTCATC 543
QY 301 CAGAACATCAGCTTCT 360
DB 544 CAGAACATCAGCTTCT 603
QY 361 GCGGTGTGGGCTTCT 420
DB 604 GCGGTGTGGGCTTCT 663
QY 421 AAGTGCCTGCTCAACGCTGCTCTGTGTAACAGGACGCTATGGGAGGAGATTAAC 480
DB 664 AAGTGCCTGCTCAACGCTGCTCTGTGTAACAGGACGCTATGGGAGGAGATTAAC 723
QY 481 GACGGGAAGCTCTACGAGGCTTACGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 540
DB 724 GACGGGAAGCTCTACGAGGCTTACGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 783
QY 541 GTGAATCTTATCTTAAAGCGGAGCTGGAGCGGCTGGGGGCTTCAAGCTCTTCTGGAC 600
DB 784 GTGAATCTTATCTTAAAGCGGAGCTGGAGCGGCTGGGGGCTTCAAGCTCTTCTGGAC 843

QY 601 GACCGGACCTCTGCGCGCGCTGAGCCCTCCGCGACCTTGTGTGAACCTGAGCCGC 660
DB 844 GACCGGACCTCTGCGCGCGCTGAGCCCTCCGCGACCTTGTGTGAACCTGAGCCGC 903
QY 661 TGCAGCGCTCATCGTGTGCTTTTCGAGCGCTTCTGAGCCCGGCTGTGTGACGCCAC 720
DB 904 TGCAGCGCTCATCGTGTGCTTTTCGAGCGCTTCTGAGCCCGGCTGTGTGACGCCAC 963
QY 721 AGCTTCCGGAGAGGCGCTGTGCGCGCTGTGAGCTTACCGGAGACCAATCTTCAACAC 780
DB 964 AGCTTCCGGAGAGGCGCTGTGCGCGCTGTGAGCTTACCGGAGACCAATCTTCAACAC 1023
QY 781 TTGAGAGGCGAGAGGCGCACCCCGCGACCCGCGCTCGCTGTGCGCGCACACCGC 840
DB 1024 TTGAGAGGCGAGAGGCGCACCCCGCGACCCGCGCTCGCTGTGCGCGCACACCGC 1083
QY 841 CACTGTGTACCTTGTGCTCTGTGAGAGCCCGCTCCGTGATCTTCTTCCGATTTTGG 900
DB 1084 CACTGTGTACCTTGTGCTCTGTGAGAGCCCGCTCCGTGATCTTCTTCCGATTTTGG 1143
QY 901 AAAAGAGTACAGTGTGCGCTGCGCGGAGAGTGCCTAGAGCGCGGTGAAGAGACCC 960
DB 1144 AAAAGAGTACAGTGTGCGCTGCGCGGAGAGTGCCTAGAGCGCGGTGAAGAGACCC 1203
QY 961 CAGACGCACTGCAAGAGCAGCAAGAACCCCATGTGATTTCTTGAAGCCGAGTCCCTGAG 1020
DB 1204 CAGACGCACTGCAAGAGCAGCAAGAACCCCATGTGATTTCTTGAAGCCGAGTCCCTGAG 1263
QY 1021 GGCCTGGGCTTGTGATCTGAGAGTGAACCCGAGACCTTGAAGGCGGACCTTGGGTGTCGGGGG 1080
DB 1264 GGCCTGGGCTTGTGATCTGAGAGTGAACCCGAGACCTTGAAGGCGGACCTTGGGTGTCGGGGG 1323
QY 1081 CCGTTTTTGGAGAGCATCAGTCCACCGCACACAGTGGGGTCCGCTGGGAGAGAGC 1140
DB 1324 CCGTTTTTGGAGAGCATCAGTCCACCGCACACAGTGGGGTCCGCTGGGAGAGAGC 1383
QY 1141 CGAGCAGCGAAGTGAACGCTTCGAGATCTCGGCTCGCGAAATCAAGTCCCGCAGAC 1200
DB 1384 CGAGCAGCGAAGTGAACGCTTCGAGATCTCGGCTCGCGAAATCAAGTCCCGCAGAC 1443
QY 1201 TTCTACTGCTGCTGTGCTTCAAGATGATATGTAG 1233
DB 1444 TTCTACTGCTGCTGTGCTTCAAGATGATATGTAG 1476

RESULT 11
AD119781
ID AD119781 standard; DNA; 1659 BP.
XX
AC AD119781;
XX
DT 22-APR-2004 (first entry)
XX
XX Human NOV9 DNA.
DE
XX
XX Secreted protein; NOVX; diagnosis; metabolic disorder; diabetes; obesity;
XX infection; anorexia; cancer; cardiovascular disease; hypertension;
XX atherosclerosis; neurodegenerative disorder; Alzheimer's disease;
XX Parkinson's disease; epilepsy; immune disorder; osteoarthritis;
XX haematopoietic disorder; inflammatory skin disorder; asthma;
XX dyslipidemia; neurogenesis; cell differentiation; cell proliferation;
XX haematopoiesis; wound healing; angiogenesis; chromosome mapping;
XX tissue typing; preventive medicine; pharmacogenomics; gene therapy;
XX anorectic; cardiac; vinticide; antibacterial; fungicide; protozoacide;
XX neotropic; neuroprotective; dermatological; human; gene; db.
XX
XX Homo sapiens.
OS
XX
FH Key Location/Qualifiers
FT CDS 244..1476
FT /tag= a
FT /product= "Human NOV protein"
FT /transl_except= (pos352..354, aa:Val)

KW gene therapy; colon specific nucleic acid; cancer; colon;
XX chromosome 11p15.5.
OS Homo sapiens.
XX WO2004050860-A2.
XX 17-JUN-2004.
XX 04-DEC-2003; 2003WO-US040063.
XX 04-DEC-2002; 2002US-0431132P.
XX 04-DEC-2002; 2002US-0431144P.
XX (DIAD-) DIADEXUS INC.
XX Macina RA, Turner LR, Sun Y;
XX WPI; 2004-480623/45.
XX
XX Novel colon specific protein derived from normal and neoplastic colon
PT cell, useful as vaccine in treating colon cancer and in identifying,
PT diagnosing, monitoring, staging, imaging colon cancer and non-cancerous
PT disease state in colon.
PS Claim 1; SEQ ID NO 24; 547pp; English.

XX The invention relates to a novel colon specific protein (CSP) (I) and the
XX nucleic acid (CSNA) encoding it. A CSP of the invention has cytostatic
XX activity. The protein is useful as a vaccine, and the nucleic acid may
XX have a use in gene therapy. A CSP is useful for determining the presence
XX of a colon specific protein in a sample. A CSNA is useful for determining
XX the presence of a colon specific nucleic acid (CSNA) in a sample. The CSP
XX and CSNA are useful for diagnosing or monitoring the presence and
XX metastases of colon cancer in a patient. A method of the invention is
XX useful for treating a patient with colon cancer. A CSP and CSNA are
XX useful in identifying, diagnosing, monitoring, staging, imaging colon
XX cancer and non-cancerous disease state in colon, and as a vaccine for
XX treating colon cancer and non-cancerous disease states in colon. The
XX present sequence represents a CSNA of the invention.

XX Sequence 1833 BP; 330 A; 610 C; 564 G; 329 T; 0 U; 0 Other;

Query Match 93.8%; Score 1156; DB 12; Length 1833;
Best Local Similarity 94.8%; Pred. No. 2.6e-221;
Matches 1233; Conservative 0; Mismatches 0; Indels 67; Gaps 1;

QY 1 ATGCCAGGTGTCTGTGATAGAGGCCCTGACTTCTCCCTGCTGAGACAGGTGCTG 60
DB 353 ATGCCAGGTGTCTGTGATAGAGGCCCTGACTTCTCCCTGCTGAGACAGGTGCTG 412
QY 61 AGGCTTGGCTTGGGAGCTAGTGGCTTGAACCTGACCGGCTTGGGTAAGTCTTGGGCCC 120
DB 413 AGGCTTGGCTTGGGAGCTAGTGGCTTGAACCTGACCGGCTTGGGTAAGTCTTGGGCCC 472
QY 121 CACTGCTCCCTGCTTCACTGACAGTGAAGAGCGGGCTTCCATTGGGAAATTTGGGAGG 180
DB 473 CACTGCTCCCTGCTTCACTGACAGTGAAGAGCGGGCTTCCATTGGGAAATTTGGGAGG 532
QY 181 CACTAGAGCTTCCAGAGTAAGTCTCTGGGTCAAGGCCAAGTCTGAGAGGTCTTGTGTC 240
DB 533 CACTAGAGCTTCCAGAGTAAGTCTCTGGGTCAAGGCCAAGTCTGAGAGGTCTTGTGTC 592
QY 241 AGTGTCTCTGGGGGTCAACGTGACCAAGCACTGAAGTCTATATGGGCTTCACTGCTCATC 300
DB 593 AGTGTCTCTGGGGGTCAACGTGACCAAGCACTGAAGTCTATATGGGCTTCACTGCTCATC 652
QY 301 CAGAACATCAAGCTTCTCTCTCACTTCACTGAGAGAGCTGGCCCTACAGCCAGTGGCT 360
DB 653 CAGAACATCAAGCTTCTCTCTCACTTCACTGAGAGAGCTGGCCCTACAGCCAGTGGCT 712
QY 361 GCGGTCTGGGCTTCCCTCTGATCTGCTGAGCCCTGCTGAGCCGCGCTCTATATGTC 420

DB 713 GCGGTCTGGGCTTCCCTCTGATCTGCTGAGCCCTGCTGAGCCGCGCTGCTCTATATGTC 772
QY 421 AAGTCCGCTTCAAGTGTGCTTGTGATACAGAGACGCTATGGGAGGTGAGATTAAC 480
DB 773 AAGTCCGCTTCAAGTGTGCTTGTGATACAGAGACGCTATGGGAGGTGAGATTAAC 832
QY 481 GACGGAAAGCTTCAAGACGCTTACGCTTCTCAAGAGACTGGCCCGAGAGACCGCAATTC 540
DB 833 GACGGAAAGCTTCAAGACGCTTACGCTTCTCAAGAGACTGGCCCGAGAGACCGCAATTC 892
QY 541 GTGAACCTTATCTTAAGCGCGAGCTGAGAGCGCGCTGGGGCTTACAGCTTCTTCTGAC 600
DB 893 GTGAACCTTATCTTAAGCGCGAGCTGAGAGCGCGCTGGGGCTTACAGCTTCTTCTGAC 952
QY 601 GACCGGACCTCTGCGCGGCTGAGAGCTTCCGCGAGCTCTGTTGGTGAACCTGAGCCGC 660
DB 953 GACCGGACCTCTGCGCGGCTGAGAGCTTCCGCGAGCTCTGTTGGTGAACCTGAGCCGC 1012
QY 661 TGCCGAGCCTCATGCTGCTTTCGAGAGCTTCTGAGCCGCGGCTGCTGAGCCAGC 720
DB 1013 TGCCGAGCCTCATGCTGCTTTCGAGAGCTTCTGAGCCGCGGCTGCTGAGCCAGC 1072
QY 721 AGCTTCC----- 727
DB 1073 AGCTTCCGCTGAGCTCCGCGCGGCTTGGGAGGAGCCGAGACCCAGCCGCTGAC 1132
QY 728 -----GGAGAGGCTGTGCGGCTGAGCTTCAAGCCGAGACCCATCTT 773
DB 1133 GGTCCGCGCGAGAGAGGCTTGTGCGGCTTGTGAGCTTCAAGCCGAGACCCATCTT 1192
QY 774 CATCACTTTCGAGAGGCGAGAGCGGAGCCCGCGAGCCCGGCTTCCGCTGCTGAGC 833
DB 1193 CATCACTTTCGAGAGGCGAGAGCGGAGCCCGCGAGCCCGGCTTCCGCTGCTGAGC 1252
QY 834 GCAAGCGCACTGTGAGCTTGTGCTTGTGAGAGCGCGGCTTCCGTAATCTTCTCCGA 893
DB 1253 GCAAGCGCACTGTGAGCTTGTGCTTGTGAGAGCGCGGCTTCCGTAATCTTCTCCGA 1312
QY 894 TTTTGGAAAGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 953
DB 1313 TTTTGGAAAGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT 1372
QY 954 AGACCCCGAGAGCGAGCTGACAGAGCAAGAGCCCATGCTGATTTCTTGAAGCCGAGT 1013
DB 1373 AGACCCCGAGAGCGAGCTGACAGAGCAAGAGCCCATGCTGATTTCTTGAAGCCGAGT 1432
QY 1014 CCTGAGGGCCCGGCTTGAAGTCAAGAGTGAACCTTGAAGGAGCACTTGGGTGT 1073
DB 1433 CCTGAGGGCCCGGCTTGAAGTCAAGAGTGAACCTTGAAGGAGCACTTGGGTGT 1492
QY 1074 CCGGGGGCTGTTTTGAGAGCATCAAGTCAAGCCGACACCAAGTGGGGTCTCGCTGG 1133
DB 1493 CCGGGGGCTGTTTTGAGAGCATCAAGTCAAGCCGACACCAAGTGGGGTCTCGCTGG 1552
QY 1134 AGAGAGCCGAGAGCAAGGAGTGAAGTCTGAGATCTCGGCTGCGAACTACAGTCCCG 1193
DB 1553 AGAGAGCCGAGAGCAAGGAGTGAAGTCTGAGATCTCGGCTGCGAACTACAGTCCCG 1612
QY 1194 CACAGACTTCTACTGCTGCTGTCCAGAGATGATATGAG 1233
DB 1613 CACAGACTTCTACTGCTGCTGTCCAGAGATGATATGAG 1652

RESULT 13
ABK40277 standard; cDNA; 1649 BP.
XX
AC ABK40277;
XX
DT 15-JUN-2002 (first entry)
XX
XX cDNA encoding human PRO342 polypeptide.
XX

KW Human; PRO; benign tumour; malignant tumour; lymphoid malignancy;
KW leukemia; neuronal disorder; stromal disorder; blastocoele disorder;
KW inflammatory disorder; immune disorder; angiogenic disorder;
KW gene therapy; cytoabatic; neuroprotective; gene; ss.
XX Homo sapiens.
XX MO200153486-A1.
XX PD 26-JUL-2001.
XX PF 11-FEB-2000; 2000WO-US003565.
XX PR 08-MAR-1999; 99WO-US005028.
PR 11-MAR-1999; 99US-0123972P.
PR 11-MAY-1999; 99US-0133459P.
PR 02-JUN-1999; 99WO-US012252.
PR 22-JUN-1999; 99US-0140650P.
PR 22-JUN-1999; 99US-0140653P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145688P.
PR 28-JUL-1999; 99US-0146222P.
PR 17-AUG-1999; 99US-0149395P.
PR 31-AUG-1999; 99US-0151689P.
PR 01-SEP-1999; 99WO-US020111.
PR 15-SEP-1999; 99WO-US021090.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 05-JAN-2000; 2000WO-US028634.
XX PR 05-JAN-2000; 2000WO-US000219.
XX PA (GETH) GENENTECH INC.
XX PI Ashkenazi AJ, Goddard A, Godowski PJ, Gurney AL, Hillan KJ;
PI Marsters SA, Pan J, Pileri RM, Roy MA, Smith V, Stone DM;
PI Matsubae CK, Wood WI;
XX DR WPI; 2002-205567/26.
XX DR P-PSDB; AAU86151.
XX PT Thirty five nucleic acids encoding PRO polypeptides, useful for treating
PT benign or malignant tumors, leukemias and lymphoid malignancies,
PT inflammatory, angiogenic and immunologic disorders.
XX PS Claim 50; Fig 47; 302pp; English.
XX CC The present invention relates to the isolation of novel human PRO
CC polypeptides and the polynucleotide sequences encoding them. The PRO
CC polypeptides, agonists, antagonists or anti-PRO antibodies are useful for
CC treating benign or malignant tumors (e.g. renal, kidney, bladder,
CC breast, etc), leukemias and lymphoid malignancies, other disorders such
CC as neuronal, glial, astrocytic, hypothalamic, glandular, macrophagal,
CC stromal and blastocoele disorders, inflammatory, immune and angiogenic
CC disorders. The polynucleotide sequences are also useful in gene therapy.
CC ABK40254-ABK40288 encode for the human PRO polypeptides of the invention
XX XX
XX Sequence 1649 BP; 267 A; 554 C; 526 G; 302 T; 0 U; 0 Other;
Query Match 86.9%; Score 1071.8; DB 6; Length 1649;
Best Local Similarity 99.8%; Pred. No. 1.7e-204;
Matches 1073; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 ATGCCAGGTGTCTGTGATAGGAGCCCTGACTTCTCTCCCGCTGTAAGACAGAGTCTG 60
DB 104 ATGCCAGGTGTCTGTGATAGGAGCCCTGACTTCTCTCCCGCTGTAAGACAGAGTCTG 163
QY 61 AGGCTGCTTGGGACAGTCACTGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 120
DB 164 AGGCTGCTTGGGACAGTCACTGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 223
QY 121 CACTGCTCTGCTGCTTCACTGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 180
DB 224 CACTGCTCTGCTGCTTCACTGAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 283

QY 181 CACTACAGCTTCCACAGTACTCTGAGTCAAGGCAACCTGTGACAGAGTCTGTGTCC 240
DB 284 CACTACAGCTTCCACAGTACTCTGAGTCAAGGCAACCTGTGACAGAGTCTGTGTCC 343
QY 241 AGTGTCTGAGGAGGCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 300
DB 344 AGTGTCTGAGGAGGCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 403
QY 301 CAGAACATCAGCTTCTCTCTTCACTCTTCAAGAGTGGCCCTACAGGCAAGTGGCT 360
DB 404 CAGAACATCAGCTTCTCTCTTCACTCTTCAAGAGTGGCCCTACAGGCAAGTGGCT 463
QY 361 GCGGTGCTGAGCT 420
DB 464 GCGGTGCTGAGCT 523
QY 421 AAGTGCCTGCTCAACAGTGTGCTCTGAGTCAAGAGCGGTATGGGAGGTGAGTAAAC 480
DB 524 AAGTGCCTGCTCAACAGTGTGCTCTGAGTCAAGAGCGGTATGGGAGGTGAGTAAAC 583
QY 481 GACGGAGAGCTTACAGACGCTTACGCTCTTACAGGACTGCCCCGAGAGCCGCAAGTTC 540
DB 584 GACGGAGAGCTTACAGACGCTTACGCTCTTACAGGACTGCCCCGAGAGCCGCAAGTTC 643
QY 541 GTGAATCTTCACTTAAAGCCGACAGTGAAGGCGGCTGAGGCTTCAAGCTTCTCTGAGC 600
DB 644 GTGAATCTTCACTTAAAGCCGACAGTGAAGGCGGCTGAGGCTTCAAGCTTCTCTGAGC 703
QY 601 GACCGGAGAGCTTCCGCGCGGCTGAGGAGCCCTTCCGCGAGCTTGTGAGTCAAGTGGCCG 660
DB 704 GACCGGAGAGCTTCCGCGCGGCTGAGGAGCCCTTCCGCGAGCTTGTGAGTCAAGTGGCCG 763
QY 661 TGCCGAGGCTTCACTGAGTGTCTTTCGAGGCTTTCGAGGCTTTCGAGGCTTTCGAGGCTTTCGAG 720
DB 764 TGCCGAGGCTTCACTGAGTGTCTTTCGAGGCTTTCGAGGCTTTCGAGGCTTTCGAGGCTTTCGAG 823
QY 721 AGCTTCCGAGAGGAGGCTGTGTGCGGCTGTGAGTCAACCCGAGAGCCATTTTCATCAC 780
DB 824 AGCTTCCGAGAGGAGGCTGTGTGCGGCTGTGAGTCAACCCGAGAGCCATTTTCATCAC 883
QY 781 TTGAG 840
DB 884 TTGAG 943
QY 841 CACTGTGAGCTTGTGTCTGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
DB 944 CACTGTGAGCTTGTGTCTGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1003
QY 901 AAGGAATGAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 960
DB 1004 AAGGAATGAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1063
QY 961 CAGAGGAGGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1020
DB 1064 CAGAGGAGGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1123
QY 1021 GGCAGGAGGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1075
DB 1124 GGCAGGAGGAGTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1178
RESULT 14
ADJ37328
ID ADJ37328 standard; cDNA; 1649 BP.
XX
XX AC ADJ37328;
XX DT 22-APR-2004 (first entry)
XX DE Human tumour therapy associated PRO342 cDNA.
XX KW cytoabatic; gene therapy; PRO; PRO197; PRO207; PRO226; PRO232; PRO243;

KM PRO256; PRO269; PRO274; PRO304; PRO339; PRO1558; PRO779; PRO1185;
KM PRO1245; PRO1759; PRO775; PRO7133; PRO7168; PRO5725; PRO202; PRO206;
KM PRO264; PRO313; PRO344; PRO542; PRO773; PRO861; PRO1216; PRO1686;
KM PRO1800; PRO3552; PRO3850; PRO539; PRO3316; PRO4980; cancer; tumour;
KM neoplastic cell growth; neoplastic cell proliferation; carcinoma;
KM lymphoma; blastoma; sarcoma; leukaemia; gene; ss.
XX Homo sapiens.
OS
PN US2003211096-A1.
XX
PD 13-NOV-2003.
XX
PF 02-AUG-2002; 2002US-00211858.
XX
PR 31-AUG-1999; 99US-0151689P.
XX
PR 11-FEB-2000; 2000WO-US003565.
XX
PR 09-AUG-2001; 2001US-00927796.
XX
PA (GETH) GENENTECH INC.
PI Ashkenazi AJ, Goddard A, Godowski PJ, Gurney AL, Hillan KJ,
PI Waters SA, Pan J, Picti RM, Roy MA, Smith V, Stone DM,
PI Watanabe CK, Wood WI;
XX
DR MPI: 2003-901564/82.
XX P-PSDB; ADJ37329.
XX
PT New isolated PRO polypeptides, useful as targets for the diagnosis,
PT prevention and treatment of cancers, e.g. lymphoma, blastoma, sarcoma or
PT leukemia, and as predictors of the prognosis of tumor treatment.
XX
PS Claim 50; SEQ ID NO 47; 307bp; English.
XX
CC The invention describes an isolated PRO polypeptide. The PRO polypeptide:
CC has at least 80% amino acid sequence identity to: (1) any one of 35 fully
CC defined sequences of 104-954 amino acids (designated P1-P35) given in the
CC specification, with or without its associated signal peptide; (2) an
CC extracellular domain of any one of the polypeptides of P1-P35, with or
CC without its associated signal peptide; or (3) an amino acid sequence
CC encoded by the full-length coding sequence of the DNA deposited under
CC ATCC accession number 209284, 209358, 203376, 209250, 209508, 209379,
CC 209397, 209786, 209482, 209490, 203312, 55820, 203096, 203155, 203465,
CC PTA-255, PTA-618, PTA-545, PTA-256, 203538, 203661, 203835 or PTA-43; or
CC scores at least 80% positives when compared to any one of the sequences
CC of P1-P35. Specifically claimed are 35 PRO polypeptides, i.e. PRO197,
CC PRO207, PRO226, PRO232, PRO243, PRO256, PRO269, PRO274, PRO304, PRO339,
CC PRO1558, PRO779, PRO1185, PRO1245, PRO1759, PRO5775, PRO7133, PRO7168,
CC PRO5725, PRO202, PRO206, PRO264, PRO313, PRO342, PRO542, PRO773, PRO861,
CC PRO1216, PRO1686, PRO1800, PRO3552, PRO3850, PRO539, PRO3316 and PRO4980
CC polypeptides. The PRO polypeptides are useful as targets for the
CC diagnosis, prevention and treatment of cancers, and as predictors of the
CC prognosis of tumor treatment. The nucleic acid molecules, antibodies and
CC antagonists are useful for diagnosing and treating neoplastic cell growth
CC and proliferation, e.g. carcinoma, lymphoma, blastoma, sarcoma or
CC leukemia. The antibodies may be used in screening assays for drug
CC candidates. This sequence encodes a PRO protein useful in the treatment
CC of cancers.
XX
SQ Sequence 1649 BP; 267 A; 554 C; 526 G; 302 T; 0 U; 0 Other;

Query Match 86.9%; Score 1071.8; DB 10; Length 1649;
Best local Similarity 99.8%; Pred. No. 1.7e-24;
Matches 1073; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 ATGCCAGTGTCTGTGATAGAGCCCTGACTCTCTCTCCCGTCTGAAGACAGTGTCTG 60
DB 104 ATGCCAGTGTCTGTGATAGAGCCCTGACTCTCTCTCCCGTCTGAAGACAGTGTCTG 163
QY 61 AGCCCTGCTTGGGAGCTAGTGTCTGAACGACGGCTTGGTGAAGTCTTGGGCC 120
DB 164 AGCCCTGCTTGGGAGCTAGTGTCTGAACGACGGCTTGGTGAAGTCTTGGGCC 223

QY 121 CACTGCTCCCTGCTTCACTGATGAGTGAAGAAGAGCGGCTTCCATTGGGAATTGGGGGCG 180
DB 224 CACTGCTCCCTGCTTCACTGATGAGTGAAGAAGAGCGGCTTCCATTGGGAATTGGGGGCG 283
QY 181 CACTAGAGCTTCAAGAGTATCTCTGGGTCAAGGCCAACCTGTAGAGGTCTTGTGTCC 240
DB 284 CACTAGAGCTTCAAGAGTATCTCTGGGTCAAGGCCAACCTGTAGAGGTCTTGTGTCC 343
QY 241 AGTGTCTGGGGGTCAAGCTGACCGAGCACTGAAGTATATGGGGCTTCACTGCTCATC 300
DB 344 AGTGTCTGGGGGTCAAGCTGACCGAGCACTGAAGTATATGGGGCTTCACTGCTCATC 403
QY 301 CAGAACATGAGCTTCTCTCTCTTCACTTTCAGAGAGCTGGCCCTTCAAGCCAGTGGCT 360
DB 404 CAGAACATGAGCTTCTCTCTCTTCACTTTCAGAGAGCTGGCCCTTCAAGCCAGTGGCT 463
QY 361 GCGGTGTGGCTTCCCTCTGCTGTGTCTGTGGCCCTGTGCTGTGCTGTATGTC 420
DB 464 GCGGTGTGGCTTCCCTCTGCTGTGTCTGTGGCCCTGTGCTGTGCTGTATGTC 523
QY 421 AAGTCCCTGCTCAAGCTGT 480
DB 524 AAGTCCCTGCTCAAGCTGT 583
QY 481 GACGGGAAGCTTACAGACGCTACGTCTCTTCAAGGACGTGCCCCAGAGACCGAAGTTC 540
DB 584 GACGGGAAGCTTACAGACGCTACGTCTCTTCAAGGACGTGCCCCAGAGACCGAAGTTC 643
QY 541 GTGAATTCATCTTAAAGCCGAGCTGTGAGCGGCGGTGGGGCTTCAAGCTTCTGTGAC 600
DB 644 GTGAATTCATCTTAAAGCCGAGCTGTGAGCGGCGGTGGGGCTTCAAGCTTCTGTGAC 703
QY 601 GACCGGACCTCTGCGCGGCGGTGAGCGGCTTCCGCGGACCTTGTGTGAACCTGAGCGCG 660
DB 704 GACCGGACCTCTGCGCGGCGGTGAGCGGCTTCCGCGGACCTTGTGTGAACCTGAGCGCG 763
QY 661 TGCCGAGCGCTATCTGT 720
DB 764 TGCCGAGCGCTATCTGT 823
QY 721 AGCTTCCGGAGAGGCTGT 780
DB 824 AGCTTCCGGAGAGGCTGT 883
QY 781 TTGAGAGGCGAGAGGCGGACCCCGGCGACCCGCGGCTCGCTGTGGCGGAGCACCGG 840
DB 884 TTGAGAGGCGAGAGGCGGACCCCGGCGACCCGCGGCTCGCTGTGGCGGAGCACCGG 943
QY 841 CACTGTGTGACCTTGT 900
DB 944 CACTGTGTGACCTTGT 1003
QY 901 AAAAGAGTGTGAGT 960
DB 1004 AAAAGAGTGTGAGT 1063
QY 961 CAGAGCAGCTGTGAGAGCAAGAGACCCCATGTGTATTTCTTGTGAGCGGAGTCCCTGTAG 1020
DB 1064 CAGAGCAGCTGTGAGAGCAAGAGACCCCATGTGTATTTCTTGTGAGCGGAGTCCCTGTAG 1123
QY 1021 GGCCTGGGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 1075
DB 1124 GGCCTGGGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 1178

RESULT 15
ADG68252
ID ADG68252 standard; cDNA; 1649 BP.
XX
AC ADG68252;
XX
XX
XX 11-MAR-2004 (first entry)
XX

THIS PAGE BLANK (USPTO)

Best Local Similarity 92.5%; Pred. No. 8,4e-165;
Matches 896; Conservative 0; Mismatches 32; Indels 41; Gaps 3;

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QY 148 CTGAAGAAGCGGCTTCATTGGGAATTTGGGGGCACTACAGCCTCCACAGACTCTCTGG 207
Db 1 CTGAAGAAGCGGCTTCATTGGGAATTTGGGGGCACTACAGCCTCCACAGACTCTCTGG 60
QY 208 GTCAAGGCGCAACCTGTGAGAGTGTCTGTCCAGTGTCTCTGGGGGGTCAACGTAGCAGC 267
Db 61 GTCAAGGCGCAACCTGTGAGAGTGTCTGTCCAGTGTCTCTGGGGGGTCAACGTAGCAGC 120
QY 268 ACTGAAGCTATATGAGGCGCTTTCACCTGTCTCATTCAGAACTCAGCTTCTCTCTTCACT 327
Db 121 ACTGAAGCTATATGAGGCGCTTTCACCTGTCTCATTCAGAACTCAGCTTCTCTCTTCACT 180
QY 328 CTTCAAGAGACTGGCCCTTAACAGCAGTGGCTGGCTGGTGGTCCCTCCCTGGTCTCTG 387
Db 181 CTTCAAGAGACTGGCCCTTAACAGCAGTGGCTGGCTGGTGGTCCCTCCCTGGTCTCTG 240
QY 388 CTGAGCCTGTGTGGCGCGCTGTCTATGTCAAGTGGCGCTCAACGTGTCTCTGG 447
Db 241 CTGAGCCTGTGTGGCGCGCTGTCTATGTCAAGTGGCGCTCAACGTGTCTCTGG 300
QY 448 TACCAAGACGCGATATGAGGAGTGTGAGATTAACGAGCGGAAGCTCTACGAGCTACGTC 507
Db 301 TACCAAGACGCGATATGAGGAGTGTGAGATTAAC----- 333
QY 508 TCTCAAGAGACGCGCGCGAGACCGGCAAGTGTGTGAACTTCACTCTTAAGCCGAGCTG 567
Db 334 -----GCGAGCTGCGCGCGAGACCGGCAAGTGTGTGAACTTCACTCTTAAGCCGAGCTG 386
QY 568 GAGCGGCGTGGGGGCTACAGACTCTTCTCTGGAAGCAGCGGAGCTCTGCGCGCGCTGAG 627
Db 387 GAGCGGCGTGGGGGCTACAGACTCTTCTCTGGAAGCAGCGGAGCTCTGCGCGCGCTGAG 446
QY 628 CCTTCGCGCGACCTCTTGTGTGAACCTGAGCGCGCTGCGGAGCTCATGTGTGTCTTTCG 687
Db 447 CCTTCGCGCGACCTCTTGTGTGAACCTGAGCGCGCTGCGGAGCTCATGTGTGTCTTTCG 506
QY 688 GAGGCTTCTGTAGCGGGGCTGTGTGAGCACAAGCTTCTGGGAGGGGCTGTGCCGCTG 747
Db 507 GAGGCTTCTGTAGCGGGGCTGTGTGAGCACAAGCTTCTGGGAGGGGCTGTGCCGCTG 566
QY 748 CTGAGAGCTCAACCGCAGAACCATCTTCAATCACTTCAAGAGGAGCAGAGCGGAGCCCGCG 807
Db 567 CTGAGAGCTCAACCGCAGAACCATCTTCAATCACTTCAAGAGGAGCAGAGCGGAGCCCGCG 626
QY 808 CACCGGCGCTCGCGCTGTGCGCAGACCGGCACTGTGTGACCTTGTCTGTGAGG 867
Db 627 CACCGGCGCTCGCGCTGTGCGCAGACCGGCACTGTGTGACCTTGTCTGTGAGG 686
QY 868 CCGGCGCTCGGTAAGCTCTTCTCTGCGATTTTGGAAAGTAAGTGTGAGGCGGCGCTGCGCG 927
Db 687 CCGGCGCTCGGTAAGCTCTTCTCTGCGATTTTGGAAAGTAAGTGTGAGGCGGCGCTGCGCG 745
QY 928 AAGGTGGGTACAGGCGCGGTGGAAGAGACCCCGCAGACGAGCTGACAGAGCAAGAGAC 987
Db 746 AAGGTGGGTACAGGCGCGGTGGAAGAGACCCCGCAGACGAGCTGACAGAGCAAGAGAC 805
QY 988 CCAATGTGATTTCTTGAAGGCGAGTCCCTGAAGGGCGGGGCGCTGACCTGAAGAGTGAAC 1047
Db 806 CCAATGTGATTTCTTGAAGGCGAGTCCCTGAAGGGCGGGGCGCTGAGNACTCAAGAGTGAAC 865
QY 1048 CCGGAGCTGAGGCGGAGCTGTGGTGTGCGGGGG-----CCTGTTTTTGAAGAGCATCA 1101
Db 866 CCGGAGCTGAGGCGGAGCTGTGGTGTGCGGGGGCGGGGCTTGTGTGAAGAGCATCA 925
QY 1102 GCTCAACCG 1110
Db 926 GCTTCAACG 934
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RESULT 2

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BI517905
LOCUS      BI517905      763 bp      mRNA      linear      EST 29-AUG-2001
DEFINITION 603041985F1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5182556 5',
            mRNA sequence.
ACCESSION  BI517905
VERSION    BI517905.1
KEYWORDS   GI:15342697
SOURCE     EST.
ORGANISM   Homo sapiens (human)
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  NIH-MGC http://mgi.nci.nih.gov/.
            NIH-MGC National Institutes of Health, Mammalian Gene Collection (MGC)
            JOURNAL Unpublished (1999)
            Contact: Robert Strausberg, Ph.D.
            Email: cgabbs-r@mail.nih.gov
            Tissue Procurement: Life Technologies, Inc.
            CDNA Library Preparation: Life Technologies, Inc.
            CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
            DNA Sequencing by: Incyte Genomics, Inc.
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LNL at:
            http://image.llnl.gov
            Plate: L14M1455 row: 1 column: 21
            High quality sequence stop: 739.
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             location/Qualifiers
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                 /mol_type="mRNA"
                 /db_xref="taxon:9606"
                 /clone="IMAGE:5182556"
                 /lab_host="DH10B"
                 /clone_1ib="NIH_MGC_116"
                 /note="Organ: pooled colon, kidney, stomach; Vector:
                 pCMV-SPORT6; Site_1: NotI; Site_2: EcoRV (destroyed); RNA
                 source anonymous pool of 3 colons, age 26 yo male, 49 yo
                 female, 71 yo male colon; 46 yo male kidney, and pool of 2
                 stomachs, 62 yo male and 70 yo female. Library is
                 oligo-dT primed and directionally cloned (EcoRV site is
                 destroyed upon cloning). Average insert size 1.4 kb.
                 Insert size range 1-3 kb. Library is normalized and
                 enriched for full-length clones and was constructed by C.
                 Gruber (Invitrogen). Research Genetics tracking code
                 023. Note: this is a NIH_MGC Library."
ORIGIN
Query Match 59.4%; Score 733; DB 4; Length 763;
Best Local Similarity 99.6%; Pred. No. 7.5e-149;
Matches 755; Conservative 0; Mismatches 1; Indels 2; Gaps 2;
QY 272 AAGTCATAGGGGCGCTTCACTGCTGCATCCAGAACTCAAGCTTCTCTTCACTCTTC 331
Db 1 AAGTCATAGGGGCGCTTCACTGCTGCATCCAGAACTCAAGCTTCTCTTCACTCTTC 60
QY 332 AGAGAGCTGGCGCTTCAAGCAAGCAGTGGCTGGCTGCTCTCTCTGCTCTGCTGG 391
Db 61 AGAGAGCTGGCGCTTCAAGCAAGCAGTGGCTGGCTGCTCTCTCTGCTCTGCTGG 120
QY 392 CCTGTGCTGGCGCGCTGTCTATGTCAAGTGCCTTCAACGTGTGCTGTGATAC 451
Db 121 CCTGTGCTGGCGCGCTGTCTATGTCAAGTGCCTTCAACGTGTGCTGTGATAC 180
QY 452 AGAGACCGTATGGGAGGAGTGAATTAAGAGCGGAAGCTTACAGACGCTACGTCTCC 511
Db 181 AGAGACCGTATGGGAGGAGTGAATTAAGAGCGGAAGCTTACAGACGCTACGTCTCC 240
QY 512 ACAGGACTGCCCCGAGAGACCGCAAGTTGTGTAATTCACTTCAAGCGCAGCTGAGC 571
Db 241 ACAGGACTGCCCCGAGAGACCGCAAGTTGTGTAATTCACTTCAAGCGCAGCTGAGC 300
QY 572 GGGGTGGGGCTACAAAGCTTTCTGTGAGAGACCGGAGCTCTGCGCGGCTGAGCCCT 631
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Db 301 GGCGTGGGGGTAACAAGCTCTTCTGAGCAGCCGAGACCTTCGCGCGCTGAGCCCT 360
Qy 632 CCGCGGACCTCTTGGTGAACCTTGAAGCGGCTTCCGACCGCTCATCTGTGCTTTCCGACG 691
Db 361 CCGCGGACCTCTTGGTGAACCTTGAAGCGGCTTCCGACCGCTCATCTGTGCTTTCCGACG 420
Qy 692 CTTTCTGAGCGGGGCTGTGAGCAGCAGCTTCCGGGAGGGCTGTGCGGGCTGTGCG 751
Db 421 CTTTCTGAGCGGGGCTGTGAGCAGCAGCTTCCGGGAGGGCTGTGCGGGCTGTGCG 480
Qy 752 AGCTCACCGGAGACCCATCTTCACTCACTTCAAGGGGCAAGAGCGGACCCCGGACCC 811
Db 481 AGCTCACCGGAGACCCATCTTCACTCACTTCAAGGGGCAAGAGCGGACCCCGGACCC 540
Qy 812 CCGGCGCTCCGCTGCTGTGCGGACGACCGGACCTGTGAGCTTGTCTGTGAGGGCCCG 871
Db 541 CCGGCGCTCCGCTGCTGTGCGGACGACCGGACCTGTGAGCTTGTCTGTGAGGGCCCG 600
Qy 872 GCTCCGTAAGCTCTTCTCCGATTTTGGAAAGAGTGAAGTGAAGGCGGCGGCGGAGG 931
Db 601 GCTCCGTAAGCTCTTCTCCGATTTTGGAAAGAGTGAAGTGAAGGCGGCGGCGGAGG 659
Qy 932 TGGGTAAGAGGCGGTAAG 991
Db 660 TGGGTAAGAGGCGGTAAG 718
Qy 992 TGGTGAATTTTGAAGGCGGAGTCCCTGAGGGGCGGGCC 1029
Db 719 TGGTGAATTTTGAAGGCGGAGTCCCTGAGGGGCGGGCC 756

RESULT 3
Bg740350 941 bp mRNA linear EST 15-MAY-2001
LOCUS 602634105F1 NCI_CGAP_Skn3 Homo sapiens cDNA clone IMAGE:4779337 5',

DEFINITION mRNA sequence.
ACCESSION Bg740350
VERSION Bg740350.1 GI:14051003
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 941)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)

COMMENT Contact: Robert Strauberg, Ph.D.
Email: cga@nci.nih.gov

Tissue Procurement: James Cleaver, M.D.
CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL) DNA
Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:

http://image.llnl.gov
Plate: LLM10636 row: 1 column: 02
High quality sequence stop: 856.

Location/Qualifiers
1..941

FEATURES
source

1..941
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4779337"
/lab_host="DH10B (T1 phage-resistant)"
/clone_id="NCI CGAP Skn3"
/notes="Organ: skin; Vector: pCMV-SPORT6; Site: 1: Not1;
Site 2: SalI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.5kb. Library constructed by Life
Technologies. Note: this is a NCI_CGAP Library."

ORIGIN
Query Match 58.8%; Score 725.2; DB 4; Length 941;

Best Local Similarity 98.1%; Pred. No. 3,8e-147;
Matches 808; Conservative 0; Mismatches 8; Indels 8; Gaps 7;

Qy 411 GCTCTATGTAAGTCCGCTCTCAAGCTGTGCTCTGTGATCAGAGAGCGGTATGGAGGT 470
Db 1 GCTCTATGTAAGTCCGCTCTCAAGCTGTGCTCTGTGATCAGAGAGCGGTATGGAGGT 60
Qy 471 GAGATTAAGAGCGGGAAGCTTACAGCGCTACAGTCTCTTACAGCGAGTCCCGGAGA 530
Db 61 GAGATTAAGAGCGGGAAGCTTACAGCGCTACAGTCTCTTACAGCGAGTCCCGGAGA 120
Qy 531 CCGCAAGTGTGTAAGCTTCACTCAAGAGCGGAGCTGAGAGCGGCTGAGGCTCAAGCT 590
Db 121 CCGCAAGTGTGTAAGCTTCACTCAAGAGCGGAGCTGAGAGCGGCTGAGGCTCAAGCT 180
Qy 591 CTTCTGGAAGAGCGGAGCTCTGCGCGCGCTGAGAGCTTCCGCGAGCTCTTGTGAA 650
Db 181 CTTCTGGAAGAGCGGAGCTCTGCGCGCGCTGAGAGCTTCCGCGAGCTCTTGTGAA 240
Qy 651 CTTGAGCGGCTGCGGAGAGCTCTGAGAGCTTCTGAGAGCTTCTGAGAGCGGCGCTG 710
Db 241 CTTGAGCGGCTGCGGAGAGCTCTGAGAGCTTCTGAGAGCTTCTGAGAGCGGCGCTG 300
Qy 711 GTGAGGAGAGAGCTTCCGAGAGAGCTGTGCGGAGCTGTGAGAGCTCAAGAGAGCAT 770
Db 301 GTGAGGAGAGAGCTTCCGAGAGAGCTGTGCGGAGCTGTGAGAGCTCAAGAGAGCAT 360
Qy 771 CTTTATATCATCTTGAAGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 830
Db 361 CTTTATATCATCTTGAAGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
Qy 831 CCAAG 890
Db 421 CCAAG 480
Qy 891 CGATTTTGAAG 949
Db 481 CGATTTTGAAG 540
Qy 950 AAG 1008
Db 541 AAG 600
Qy 1009 CAGATCCTTGAAG 1067
Db 601 CAGATCCTTGAAG 660
Qy 1068 GGGGTGTCGGGAGGAG 1127
Db 661 GGGGTGTCGGGAGGAG 720
Qy 1128 GCTGGG-AGAGAGCGGAG 1184
Db 721 GCTGGGAG 780
Qy 1185 CAGTGCAG 1226
Db 781 CAGTGCAG 824

RESULT 4
BX400205/c 983 bp mRNA linear EST 28-APR-2004
LOCUS BX400205 Homo sapiens T CELLS (JURKAT CELL LINE) COR 10-NORMALIZED
DEFINITION Homo sapiens cDNA clone CS0D005EY04 3-PRIME, mRNA sequence.

ACCESSION BX400205
VERSION BX400205.2 GI:46847557
KEYWORDS EST.

SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 983)
AUTHORS Eukaryote; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

DEFINITION BX369506 Homo sapiens T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED
Homo sapiens cDNA clone CS0D015YD03 5-PRIME, mRNA sequence.
ACCESSION BX369506
VERSION BX369506.2 GI:46833010
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 839)
AUTHORS Li, W.-B., Gruber, C., Jessee, J. and Polya, D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished (2001)
COMMENT On May 8, 2003 this sequence version replaced gi:30457818.
Contact: Genoscope
Genoscope - Centre National de Sequencage
2 rue Gaston Cremieux, CP 5706 - 91057 EVRY cedex - FRANCE
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and cloned
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen.
Location/Qualifiers
1..839
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0D015YD03"
/cell_type="T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED"
/cell_line="JURKAT"
/clone_1ib="Homo sapiens T CELLS (JURKAT CELL LINE) COT
10-NORMALIZED"
/note="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and cloned into the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized."
ORIGIN
Query Match 52.0%; Score 640.6; DB 5; Length 839;
Best Local Similarity 99.4%; Pred. No. 9.5e-129;
Matches 643; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 587 AGCTCTTCTGAGAGACCGGACCTCTGCGGCGGTGAGCGCTCGGACCTCTTG 646
DB 12 AGCTCTTCTGAGAGACCGGACCTCTGCGGCGGTGAGCGCTCGGACCTCTTG 71
QY 647 TGAACCTGAGCCGCTGCGGACCTCTGAGTGTCTTTGAGAGCGCTTCTGAGCGG 706
DB 72 TGAACCTGAGCCGCTGCGGACCTCTGAGTGTCTTTGAGAGCGCTTCTGAGCGG 131
QY 707 CTTGTGTGAGCCAGCTTCTGCGGAGGCGCTGTGCGGCTGTGAGCTTACCGGAGAC 766
DB 132 CTTGTGTGAGCCAGCTTCTGCGGAGGCGCTGTGCGGCTGTGAGCTTACCGGAGAC 191
QY 767 CCATCTTCATCAGCTTCTGAGGCGAGGCGGACCGCGGCGGCGGCTCGGCTG 826
DB 192 CCATCTTCATCAGCTTCTGAGGCGAGGCGGACCGCGGCGGCGGCTCGGCTG 251
QY 827 TGGCGGAGCAGCGGACCTGTGAGCTTGTGCTGTGAGAGCGGCTCGGAGCTCTT 886
DB 252 TGGCGGAGCAGCGGACCTGTGAGCTTGTGCTGTGAGAGCGGCTCGGAGCTCTT 311
QY 887 CTTCCGATTTTGGAGAGAGTGAAGTGGCGCTGCGGAGAGTGGGTACAGGCGG 946
DB 312 CTTCCGATTTTGGAGAGAGTGAAGTGGCGCTGCGGAGAGTGGGTACAGGCGG 371
QY 947 TGAAGAGAGACCCGAGAGCAGCTGAGAGCAGCAAGAGCCCATGCTGATCTTGAG 1006
DB 372 TGAAGAGAGACCCGAGAGCAGCTGAGAGCAGCAAGAGCCCATGCTGATCTTGAG 431
QY 1007 GCCGAGTCCCTGAGGCGGCGCTGTGACTCAAGAGTGAAGCCGAGACCTTGAAGGCGAGCC 1066

DB 432 GCGAGTCCCTGAGAGGCGCGGCTGTGAGTCAAGAGGTGAGCCCGGACCTTGAAGGCGAGCC 491
QY 1067 TGGGTGTCCGCGGCGCTGTGTTTGGAGAGCCTACAGTCCAGCGCACACAGTGGGTCT 1126
DB 492 TGGGTGTCCGCGGCGCTGTGTTTGGAGAGCCTACAGTCCAGCGCACACAGTGGGTCT 551
QY 1127 CGCTGAGAGAGCCGAGAGCAGAGTGAAGTGTGCTCGAGTCTCGGCTCGGAGATAC 1186
DB 552 CGCTGAGAGAGCCGAGAGCAGAGTGAAGTGTGCTCGAGTCTCGGCTCGGAGATAC 611
QY 1187 GTGCCGAGCAGAGCTTCTGAGTGTGCTGAGAGAGATATGATG 1233
DB 612 GTGCCGAGCAGAGCTTCTGAGTGTGCTGAGAGATATGATG 658
RESULT 8
BI821947 749 bp mRNA linear EST 04-OCT-2001
LOCUS 603039758F1 NIH_MGC_115 Homo sapiens cDNA clone IMAGE:5180511 5',
DEFINITION mRNA sequence.
ACCESSION BI821947
VERSION BI821947.1 GI:15933497
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 749)
AUTHORS NIH-MGC http://mhc.nci.nih.gov/.
TITLE NIH-MGC National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: gcrabs-remail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (ILNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/ILNL at:
http://image.llnl.gov
Plate: L1M11450 row: d column: 16
High quality sequence stop: 739.
Location/Qualifiers
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5180511"
/lab_host="DH10B"
/note="Organ: pooled brain, lung, testis; Vector:
pCMV-SPORT6; Site_1: NotI; Site_2: EcoRV (destroyed); RNA
source anonymous pool of 6 male brains, age range 23-27; 1
male lung, age 27; and 1 male testis, age 69. Library is
oligo-dT primed and directionally cloned (EcoRV site is
destroyed upon cloning). Average insert size 1.8 kb,
insert size range 1-3 kb. Library is normalized and
enriched for full-length clones and was constructed by C.
Gruber (Invitrogen). Research Genetics tracking code
021. Note: this is a NIH_MGC Library."
ORIGIN
Query Match 51.8%; Score 639.2; DB 4; Length 749;
Best Local Similarity 99.5%; Pred. No. 1.9e-128;
Matches 641; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 203 CTTGGGTCAAGGCAACCTGTGAGAGTGTGCTGAGTGTCTGAGGAGTCAAGTGA 262
DB 106 CCATGTCAAGGCAACCTGTGAGAGTGTGCTGAGTGTCTGAGGAGTCAAGTGA 165
QY 263 CCAGCACTGAAGTCTATGGGCGCTTCACTGTCTCAATCCAGAACATCACTTCTCTCT 322
DB 166 CCAGCACTGAAGTCTATGGGCGCTTCACTGTCTCAATCCAGAACATCACTTCTCTCT 225

QY 123 TCACTCTTCAGAGAGCTGGCCCTCAAGCCACGTGGCCGTGGCTGCTGCTCTCTG 382
 Db 226 TCACTCTTCAGAGAGCTGGCCCTCAAGCCACGTGGCCGTGGCTGCTGCTCTCTG 285
 QY 383 TCCCTGCTGGCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 442
 Db 286 TCCCTGCTGGCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 345
 QY 443 TCTGCTACCAAGAGCGCTGATGGAGATGAAGATGAAGAGCGGAGCTTACGACGCT 502
 Db 346 TCTGCTACCAAGAGCGCTGATGGAGATGAAGATGAAGAGCGGAGCTTACGACGCT 405
 QY 503 ACCGCTCTCAAGAGAGCTGCGCCGAGAGACCGCAAGTTCTGTAAGCTTCAAGCCGC 562
 Db 406 ACCGCTCTCAAGAGAGCTGCGCCGAGAGACCGCAAGTTCTGTAAGCTTCAAGCCGC 465
 QY 563 AGCTGAGCGGCGCTGCGGAGCTCAAGCTCTTCTGTAAGAGCGGAGCTCTGCGGCG 622
 Db 466 AGCTGAGCGGCGCTGCGGAGCTCAAGCTCTTCTGTAAGAGCGGAGCTCTGCGGCG 525
 QY 623 CTGAGCCCTCCGCGGAGCTCTTGTGTAAGCTGAGCGGCTGCGGAGCTCTGCGGCG 682
 Db 526 CTGAGCCCTCCGCGGAGCTCTTGTGTAAGCTGAGCGGCTGCGGAGCTCTGCGGCG 585
 QY 683 TTTCCGAGCGCTCTCTGAGCGGCGCTGCTGTAAGCTGAGCGGCTCTGCGGAGCTCTGCGGCG 742
 Db 586 TTTCCGAGCGCTCTCTGAGCGGCGCTGCTGTAAGCTGAGCGGCTCTGCGGAGCTCTGCGGCG 645
 QY 743 GGGCTGCTGAGAGCTCAAGCGGAGAGCCATCTTCAATCACTTCAAGAGGCGAGAGCGGAGCG 802
 Db 646 GGGCTGCTGAGAGCTCAAGCGGAGAGCCATCTTCAATCACTTCAAGAGGCGAGAGCGGAGCG 705
 QY 803 CCGCGACCGCGGCGCTGCGCTGCTGCGGAGAGCGGAGCGGAGCGGAGCGGAGCGGAGCG 846
 Db 706 CCGCGACCGCGGCGCTGCGCTGCTGCGGAGAGCGGAGCGGAGCGGAGCGGAGCGGAGCG 749

RESULT 9 808 bp mRNA linear EST 25-SEP-2001
 B1769076 603057053F1 NIH_MGC_122 Homo sapiens cDNA clone IMAGE:5206380 5',
 LOCUS mRNA sequence.
 DEFINITION
 B1769076 GI:15760654
 ACCESSION
 VERSION B1769076.1
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE
 AUTHORS NIH-MGC http://mgs.nci.nih.gov/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cga@bbs.femail.nih.gov
 Tissue Procurement: Life Technologies, Inc.
 cDNA Library Preparation: Life Technologies, Inc.
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LINL at:
 http://image.lnl.gov
 Plate: L14M1517 row: j column: 13
 High quality sequence stop: 807.
 Location/Qualifiers
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 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:5206380"
 /lab_host="DH10B"
 /clone_11b="NIH_MGC_122"

FEATURES

source

/note="Organ: pooled lung and spleen; Vector: pCMV-Sport6;
 Site_1: NotI; Site_2: EcoRV (destroyed); RNA source
 anonymous pool of 24 week female lung, 16 week female
 spleen, and 20-22 week male spleens. Library is oligo-dT
 primed and directionally cloned (EcoRV site is destroyed
 upon cloning). Average insert size 1.4 kb, insert size
 range 1-3 kb. Library is normalized and enriched for
 full-length clones and was constructed by C. Gruber
 (Invitrogen). Research Genetics tracking code 026. Note:
 this is a NIH_MGC Library."

Query Match 50.0%; Score 616; DB 4; Length 808;

Best Local Similarity 97.4%; Pred. No. 2,1e-123;

Matches 637; Conservative 0; Mismatches 15; Indels 2; Gaps 1;

QY 4 CCAAGTGTGTGATAGAGGCGCCCTGAGCTTCTCTCCCGCTGTAAGACCAAGTCTAGG 63
 Db 155 CCAAGTGTGTGATAGAGGCGCCCTGAGCTTCTCTCCCGCTGTAAGACCAAGTCTAGG 214
 QY 64 CTGCTCTTGGGAGAGCTGAGTGGCTTGAAGTGAAGCTTGGTGTCTGCGGCCAC 123
 Db 215 CTGCTCTTGGGAGAGCTGAGTGGCTTGAAGTGAAGCTTGGTGTCTGCGGCCAC 274
 QY 124 TGTCTCTTGGCTTCAAGTGAAGTGAAGAGAGGCTTCAATTTGGGGGCGAC 183
 Db 275 TGTCTCTTGGCTTCAAGTGAAGTGAAGAGAGGCTTCAATTTGGGGGCGAC 334
 QY 184 TACAGCTTCAAGAGTACTCTGAGGCTCAAGGAGAGAGAGAGAGAGAGTGTGTCAGT 243
 Db 335 TACAGCTTCAAGAGTACTCTGAGGCTCAAGGAGAGAGAGAGAGAGTGTGTCAGT 394
 QY 244 GTCTGTGGGAGTCAAGTGAAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 303
 Db 395 GTCTGTGGGAGTCAAGTGAAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 454
 QY 304 AACATGAGCTTCTCTCTTCACTTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 363
 Db 455 AACATGAGCTTCTCTCTTCACTTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 514
 QY 364 GTCTGTGGGAGTCAAGTGAAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 423
 Db 515 GTCTGTGGGAGTCAAGTGAAGTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 574
 QY 424 TGCCTGTCAAGTGTGCTCTGTAACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 483
 Db 575 TGCCTGTCAAGTGTGCTCTGTAACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 634
 QY 484 GGAAGTCTCAAG 543
 Db 635 GGAAGTCTCAAG 694
 QY 544 AACCTATCTTAAG 601
 Db 695 AACCTATCTTAAG 754
 QY 602 ACCGAGACCTCTGCGCGGCTGAGAGCGCTTCCGCGAGAGAGAGAGAGAGAGAGAG 655
 Db 755 ACCGAGACCTCTGCGCGGCTGAGAGCGCTTCCGCGAGAGAGAGAGAGAGAGAGAG 808

RESULT 10

CV026019

LOCUS

DEFINITION 621 bp mRNA linear EST 20-AUG-2004

3834 Full Length cDNA from the Mammalian Gene Collection Homo

sapiens cDNA 5' similar to BC003591, mRNA sequence.

CV026019 GI:51483978

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

Homo sapiens (human)

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
1 (bases 1 to 621)	Rual,J.F., Hirozane-Kikukawa,T., Hao,T., Bertin,N., Li,S., Dricot,A., Li,N., Rosenbery,J., Lamesch,P., Vidalain,P.O., Clingingsmith,T.R., Hartley,J.L., Esposto,D., Chao,D., Moore,T., Simmons,B., Segueria,R., Bosak,S., Doucette-Stamm,L., Le Peuch,C., Vandenhauve,J., Cusick,M.E., Albala,J.S., Hill,D.B. and Vidal,M.	Human ORFome Version 1.1: a Platform for Reverse Proteomics	Genome Res. (2004) In press	
	Contact: Vidal M			
	Marc Vidal Laboratory			
	1 Jimmy Fund Way Smith 858, BOSTON, MA 02115, USA			
	Tel: 617 632 5180			
	Fax: 617 632 5739			
	Email: Marc.Vidal@edci.harvard.edu			
	ORF Sequence Tag (OST) of Gateway Entry construct. Each cloned ORF results from a PCR reaction using an MGC full-length cDNA as template DNA and ORF specific primers			
	PCR primers			
	FORWARD: ATGCCAGTCTCTGTGAT			
	BACKWARD: TACATATCATCTTGACACCA			
	Insert Length: 621 Std Error: 36.00			
	Plate: 11010 row: 08 column: C			
	Seq primer: ACTGGCGTCGTTTACACGTCGACTGGGAAAC			
	High quality sequence start: 96			
	High quality sequence stop: 620			
	POLYA=No.			
FEATURES	source	location/Qualifiers		
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		/mol_type="mRNA"		
		/db_xref="taxon:9606"		
		/cfeature_type="mixed"		
		/clone_lib="Full length cDNA from the Mammalian Gene Collection"		
		/note="Vector: mixed: The ORFs were PCR amplified from the MGC (Mammalian Gene Collection) as of April 2004 and cloned by recombinational Gateway cloning into pDONR223 Donor Vector. Reference : MGC (Mammalian Gene Collection) Program Team, Generation and Initial Analysis of more than 15,000 Full-length Human and Mouse cDNA Sequences. PNAS, 2002, 99(26), 16899-16903"		
ORIGIN				
Query Match	49.9%;	Score 615.2;	DB 7;	Length 621;
Best Local Similarity	99.4%;	Pred. No. 3.1e-123;		
Matches 617;	Conservative 0;	Mismatches 4;	Indels 0;	Gaps 0;
OY	1	ATGCCAGTGTCTGTGATNAGGCCCCCTGACTTCTCTCCCGTCTGGAAGACCAAGTGTGTG	60	
Db	1	ATGCCAGGTGTCTGTGATNAGGCCCCCTGACTTCTCTCCCGTCTGGAAGACCAAGTGTGTG	60	
OY	61	AGGCGTGGCTTGGGAGGCTCAGTGGCTCTGAACTGACGCGCTTGGGTAGTCTTGGGCC	120	
Db	61	AGGCGTGGCTTGGGAGGCTCAGTGGCTCTGAACTGACGCGCTTGGGTAGTCTTGGGCC	120	
OY	121	CACGTCTCCCTGCTTCACTGCTCAGTGGCTGAAAGACGCGCTTCCATTGGGAATTGGGGC	180	
Db	121	CACGTCTCCCTGCTTCACTGCTCAGTGGCTGAAAGACGCGCTTCCATTGGGAATTGGGGC	180	
OY	181	CACGTGAGCTCTCAGAGTACTCTCTGGGTCAAAGGCAACCTGTGACAGAGTGTGTGTCC	240	
Db	181	CACGTGAGCTCTCAGAGTACTCTCTGGGTCAAAGGCAACCTGTGACAGAGTGTGTGTCC	240	
OY	241	AGTGTCCGTGGGGGTCAAGTACACGACCTGAAGCTTATGGGGCTTCACTGCTCCATC	300	
Db	241	AGTGTCCGTGGGGGTCAAGTACACGACCTGAAGCTTATGGGGCTTCACTGCTCCATC	300	
OY	301	CAGAACATCAGCTTCTCTCTCTTCACTCTTCAAGAGAGCTGGCCCTCAAGCACGTGGCT	360	
Db	301	CAGAACATCAGCTTCTCTCTCTTCACTCTTCAAGAGAGCTGGCCCTCAAGCACGTGGCT	360	
OY	361	GCGGTCTGGCTCCCTCTGGTCTGTGCGCTTGTGCGCCCTGCTTATGTC	420	

Accession	Sequence	Length
Db	GGGGTGTGGGCTCCCTCTCTGGTCTGTGGGCTGTGCTGGCGCCCTGTCTATATC	420
Qy	AAGTCCCTCTCAACGTGTGTCTGTGTACCGAGACGCTATGGGAGGTGAGATTAAC	480
Db	AAGTCCCTCTCAACGTGTGTCTGTGTACCGAGACGCTATGGGAGGTGAGATTAAC	480
Qy	GACGGGAAGCTCTACGACGCTCTCTCTTACACGACTGCGCCCGAGACCGCAATTTC	540
Db	GACGGGAAGCTCTACGACGCTCTCTCTTACACGACTGCGCCCGAGACCGCAATTTC	540
Qy	GTGAACCTCATCTCTTAAAGCCGACGTGAGCGCGCTGGGGGCTACAAAGCTTCTCTGAC	600
Db	GTGAACCTCATCTCTTAAAGCCGACGTGAGCGCGCTGGGGGCTACAAAGCTTCTCTGAC	600
Qy	GACCGCGACCTCTCTGCGCGGC 621	
Db	GACCGCGACCTCTCTGCGCGGC 621	

RESULT 11				
Bt518182/c				
LOCUS	Bt518182	791 bp	mRNA	linear EST 29-AUG-2001
DEFINITION	603041985T1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5182556 3',			
ACCESSION	Bt518182			
VERSION	Bt518182.1	GI:15342974		
KEYWORDS	EST.			
SOURCE	Homo sapiens (human)			
ORGANISM	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.			
REFERENCE	1 (bases 1 to 791) NIH-MGC http://mgs.nci.nih.gov/. National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999) Contact: Robert Strausberg, Ph.D. Email: cgaps-femail.nih.gov Tissue Procurement: Life Technologies, Inc. cDNA Library Preparation: Life Technologies, Inc. CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: http://image.lnl.gov plate: LLM1455 row: i column: 21 High quality sequence start: 40 High quality sequence stop: 733. Location/Qualifiers 1..791 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone="IMAGE:5182556" /lab_host="DH10B" /clone_id="NIH_MGC_116" note="Organ: pooled colon, kidney, stomach; Vector: PCW-SPORE6; Site 1: NotI; site 2: EcoRV (destroyed); RNA source anonymous pool of 3 colons, age 26 yo male, 49 yo female, 71 yo male colon; 46 yo male kidney, and pool of 2 stomachs, 62 yo male and 70 yo female. Library is oligo-dT primed and directionally cloned (EcoRV site is destroyed upon cloning). Average insert size 1.4 kb, insert size range 1-3 kb. Library is normalized and enriched for full-length clones and was constructed by C. Gruber (invitrogen). Research Genetics tracking code 023. Note: this is a NIH_MGC Library."			
FEATURES	source			
ORIGIN	Query Match 49.2%; Score 606.6; DB 4; Length 791; Best Local Similarity 98.0%; Pred. No. 2.3e-121; Matches 646; Conservative 0; Mismatches 9; Indels 4; Gaps 3;			

FEATURES	LOCATION/Qualifiers	SEQUENCE
ORF	579	GGGCTACAAGAGCTCTTCCTGGAGACACCGGGAACCTCTCGCCGCGCGGTGAGACCTC-CGCGCG 637
ORF	790	GGGCTACAAGAGCTCTTCCTGGAGAGTCCGGGACCTCTCTGGGCGCGCTGAGACCTCTTCGCGCT 731
ORF	638	AACCTTGGTGAACCTGAGACCGAGCTGCGGACCGCTCATGATGATGATGCTTTGAGACGCTTCC 697
ORF	730	AACCTTGGTGAACCTGATTCGGCTGCCGACCGCTCATGATGATGATGCTTTGAGACGCTTCC 671
ORF	688	TGAGCCGGGAGCTGGTGCAGACCAAGCTTCCGGGAGGAGGCTGTGCGGCTGCTGAGCTCA 757
ORF	670	TGAGCCGGGAGCTGGTGCAGACCAAGCTTCCGGGAGGAGGCTGTGCGGCTGCTGAGCTCA 611
ORF	758	CCCCGAGACCCATCTTCAATCAACCTTCCGAGGGGCGAAGGCGC-GACCCCGCGACCCCGGCG 816
ORF	610	CCCCGAGACCCATCTTCAATCAACCTTCCGAGGGGCGAAGGCGCTGACCCCGCGACCCCGGCG 551
ORF	817	CTCCGCGCT--GCTGCGCCAGACCGCGCACTTGGTGAACCTTGGCTGTCTGAGAGCCCGGCT 874
ORF	550	CTCCGCGCTTGGCTGGCGGCGACGACCGCGCACTGGTGAACCTTGGCTGTCTGAGAGCCCGGCT 491
ORF	875	CCGTGACTCTTTCCTCCGATTTTGGAAAGAAGTGACAGCTGGCGCTGCGCGGAGAGTGTC 934
ORF	490	CCGTGACTCTTTCCTCCGATTTTGGAAAGAAGTGACAGCTGGCGCTGCGCGGAGAGTGTC 431
ORF	935	GGTACAGGCGCGGTGGAGAAGAGACCCCGCAGACGCACTGACAGAGCAACAAGACCCCATGC 994
ORF	430	GGTACAGGCGCGGTGGAGAAGAGACCCCGCAGACGCACTGACAGAGCAACAAGACCCCATGC 371
ORF	995	TGATTTCTTGAAGCGGAGCTCCCTGAGGGGCGGGGCGCTGAGCTCAAGAGTGAACCCCGAC 105
ORF	370	TGATTTCTTGAAGCGGAGCTCCCTGAGGGGCGGGGCGCTGAGCTCAAGAGTGAACCCCGAC 311
ORF	1055	CTGAGGAGGAGCTTGGGATGTCGGGGGAGCTGTTTGGAGAGGCACTCACTCAGCGCAC 1114
ORF	310	CTGAGGAGGAGCTTGGGATGTCGGGGGAGCTGTTTGGAGAGGCACTCACTCAGCGCAC 251
ORF	1115	CCAAGTGGGAGCTTCCGTGGGAGAGAGCCGGAAGCAAGTGAAGTCTTCGAGTCTCGGCT 1174
ORF	250	CCAAGTGGGAGCTTCCGTGGGAGAGAGCCGGAAGCAAGTGAAGTCTTCGAGTCTCGGCT 191
ORF	1175	CGCGAAATCAACAGTCCCGGCAAGACTTCTACTGCTGATGTCGAAAGATGATATGTAG 1233
ORF	190	CGCGAAATCAACAGTCCCGGCAAGACTTCTACTGCTGATGTCGAAAGATGATATGTAG 132
RESULT 12		
LOCUS	BM924346	1106 bp mRNA linear EST 12-MAR-2002
DEFINITION	AGENCOURT_6630582 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5760639	
ACCESSION	BM924346	5', mRNA sequence.
VERSION	BM924346.1	GI:19374725
KEYWORDS	EST.	
SOURCE	Homo sapiens (human)	
ORGANISM	Homo sapiens	
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.	
REFERENCE	NIH-MGC http://mgs.nci.nih.gov/	
AUTHORS	National Institutes of Health, Mammalian Gene Collection (MGC)	
TITLE	Unpublished (1999)	
JOURNAL	Contact: Robert Strausberg, Ph.D.	
COMMENT	Email: cga@bbs-rcmail.nih.gov	
	Tissue Procurement: Life Technologies, Inc.	
	cDNA Library Preparation: Life Technologies, Inc.	
	cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)	
	Cloning distribution by: Agencourt Bioscience Corporation	
	Cloning distribution by: MGC clone distribution information can be	
	found through the I.M.A.G.E. Consortium/LNLN at:	
	http://image.lnl.gov	
	Plate: LLM12807 row: p column: 16	
	High quality sequence scopi: 655.	
	Location/Qualifiers	

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source
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   /mol_type="mRNA"
   /db_xref="taxon:9606"
   /clone="IMAGE:5760639"
   /lab_host="DH10B"
   /clone_11b="NIH_MGC 116"
   /note="Organ: pooled colon, kidney, stomach; Vector:
pCNV-SPORT6; Site_1: NotI; Site_2: EcoRV (destroyed);
source anonymous pool of 3 colonies, age 26 yo male, 49 yo
female, 71 yo male colon; 46 yo male kidney, and pool of
stomach, 62 yo male and 70 yo female. Library is
oligo-dT primed and directionally cloned (EcoRV site is
destroyed upon cloning). Average insert size 1.4 kb,
insert size range 1-3 kb. Library is normalized and
enriched for full-length clones and was constructed by C.
Gruber (Invitrogen). Research Genetics tracking code
023. Note: this is a NIH_MGC library."

ORIGIN

Query Match      48.8%; Score 601.4; DB 5; Length 1106;
Best Local Similarity 93.2%; Pred. No. 3.2e-120;
Matches 728; Conservative 0; Mismatches 41; Indels 12; Gaps 5

OY      1  ATGCCAGGTGTCTGTGATATAGGGCCCTCGACTTCCTCTCCCGCTGGAAGACCAAGTGTCTG 60
DB      198 ATGCCAGGTGTCTGTGATATAGGGCCCTCGACTTCCTCTCCCGCTGGAAGACCAAGTGTCTG 25
OY      61  AGGCGTGCCTTGGGGAGCTCAGTGTGCTGAACTGCAAGCGCTTGGGTATCTCTGAGGCC 12
DB      258 AGGCTGTGCTTGGGAGCTCAGTGTGCTGAACTGCAAGCGCTTGGGTATCTCTGAGGCC 31
OY      121 CACTGTCCCTGTGCTTCAGTCCAGTGGCTGAAGAAGCGGCTTCCATTGGGAATTGGGGGC 18
DB      318 CACTGTCCCTGTGCTTCAGTCCAGTGGCTGAAGAAGCGGCTTCCATTGGGAATTGGGGGC 37
OY      181 CACTACAGCTCCAGAGTATCTCTGGGTCAAGGCCAATCTGTCAAGAGTCTTGTGTCC 24
DB      378 CACTACAGCTCCAGAGTATCTCTGGGTCAAGGCCAATCTGTCAAGAGTCTTGTGTCC 43
OY      241 AGTGTCTGGGGGTGAAGCTGAACGACCTGAAGTCTATGGGGCTTCACTGTGCATC 30
DB      438 AGTGTCTGGGGGTGAAGCTGAACGACCTGAAGTCTATGGGGCTTCACTGTGCATC 49
OY      301 CAGAAATCAGACTTCTCTCTCTTCACTCTTCAGAGAGTGGCCCTTACAGACCAAGTGGCT 36
DB      498 CAGAAATCAGACTTCTCTCTCTTCACTCTTCAGAGAGTGGCCCTTACAGACCAAGTGGCT 55
OY      361 GCGGTGTGAGCTCCCTCTCTGTGTCTGTGTGCGCCCTGCTGTGAGCGCGCCCTCTATGTC 42
DB      558 GCGGTGTGAGCTCCCTCTCTGTGTCTGTGTGCGCCCTGCTGTGAGCGCGCCCTCTATGTC 61
OY      421 AAGTGCCTGTCAAGTGTCTGTCTGTGTATCCAGGA -GCGGTATGGGAGGTGGAGATAAA 47
DB      618 AAGTGCCTGTCAAGTGTCTGTGTGTATCCAGGACCGCGTATGGGAGGTGGAGATAAA 67
OY      480 CGACGGGAAGCTTACAGAGCTTACGTCTCCACAGAGCACTGCCCGAGAGACCGCAAGTT 53
DB      678 CGACGGGAAGCTTACAGAGCTTACGTCTCTTACAGAGCACTGCCCGAGAGACCGCAAGTT 73
OY      540 CGTGAATCTTATCTTAAAGCCGACAGCTGAGAG -GCGGTGCGGGGTACAA -GCTTTTCT 59
DB      738 CGTGAATCTTATCTTAAAGCCGACAGCTGAGAGCGGCGGTGCGGGGTACAAAGCTTTTCT 79
OY      597 GGAAGAAC -GCGACTCTCTGCGCGCGCTGAGACTTCGCGAGACTCTTGGTG --AAGCT 65
DB      798 GGAAGAACCGGCAATCTCTGCGCGCGCTGAGACTTCGCGCAAACTCTTGGTGAATCTG 85
OY      654 GAACGCGTGCAGAGCTCATATGATGATG -CTTTGGAGAGGCTT --CCGAGCGGGGCTG 71
DB      858 AACCGCTGCAGACCTCATATGATGATGAGGTTTTTTTGGAGAGCTTTTCTTGAAGCCGAGGCTG 91
OY      711 GT -GCAAGCA -GCTTCCGGAAGGGCTGTGACCGGCTGTGAAGCTCACCGCAGACC 76

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Db      918 GTGGCAGCAGCAGCTTCCCGAAGGCGCCCTGGGCGCCGCTGGCGGAAACTCAACCCG 977
QY      769 A 769
Db      978 A 978

RESULT 13
LOCUS   BE792803               845 bp      mRNA      linear      EST 20-SEP-2000
DEFINITION BE792803
601584677F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3939162 5',
mRNA sequence.
ACCESSION BE792803
VERSION   BE792803.1
KEYWORDS  EST.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 845)
AUTHORS   NIH-MGC http://mgi.nci.nih.gov/.
TITLES    National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT   Contact: Robert Strauberg, Ph.D.
          Email: cgaobs-r@mail.nih.gov
          Tissue Procurement: DCTD/DRP
          cDNA Library Preparation: Ling Hong/Rubin Laboratory
          cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
          DNA Sequencing by: Incyte Genomics, Inc.
          Clone distribution: MGC clone distribution information can be
          found through the I.M.A.G.E. Consortium/LNL at: image.lnl.gov
          Plate: L10W787 row: 1 column: 19
          High quality sequence stop: 790.
FEATURES             Location/Qualifiers
     source           1..845
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:3939162"
                     /tissue_type="small cell carcinoma"
                     /cell_line="MGC3"
                     /lab_host="DH10B (phage-resistant)"
                     /clone_11b="NIH MGC 7"
                     /note="Organ: lung; Vector: pOTB7; Site 1: XhoI; Site 2:
                     EcoRI; cDNA made by oligo-dT priming. Directionally
                     cloned into EcoRI/XhoI sites using the following 5'
                     adaptor: GGACAGAG(G). Size-selected >500bp for average
                     insert size 1.8kb. Library constructed by Ling Hong in
                     the laboratory of Gerald M. Rubin (University of
                     California, Berkeley) using ZAP-cDNA synthesis kit
                     (Stratagene) and Superscript II RT (Life Technologies)."
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ORIGIN

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Query Match      47.8%; Score 589.8; DB 2; Length 845;
Best Local Similarity 97.8%; Pred. No. 1,1e-117;
Matches 609; Conservative 0; Mismatches 12; Indels 2; Gaps 1;
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QY      1 ATGCCAGGTGTGTGTATAGAGGCCCTGACTTCTCTCCCGCTGTGAAGACAGAGTGTG 60
Db      166 ATCCACAGGTGTGTGTATAGAGGCCCTGACTTCTCTCCCGCTGTGAAGACAGAGTGTG 225
QY      61 AGGCCCTGCTTGGGAGCTCAGTGGCTCTAAGTCAGCAGGCTTGGGTAGTCTCGGGCCC 120
Db      226 AGGCCCTGCTTGGGAGCTCAGTGGCTCTAAGTCAGCAGGCTTGGGTAGTCTCGGGCCC 285
QY      121 CACTGCTCCCTGCTTGCAGTCAGTGGCTGAAGAAGCGGCTTCATTGGAAATTGGGGGC 180
Db      286 CACTGCTCCCTGCTTGCAGTCAGTGGCTGAAGAAGCGGCTTCATTGGAAATTGGGGGC 345
QY      181 CACTACAGCTTCCACGAGTACTCTCTGGGTCAAGGCCAAGCTGTGACAGGTCTTGTGTC 240
Db      346 CACTACAGCTTCCACGAGTACTCTCTGGGTCAAGGCCAAGCTGTGACAGGTCTTGTGTC 405
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QY      241 AGGTCTTGGGGGTCAAGCTGACCAAGCTGAAGTCTATGGGACCTTCACTGCTCCATC 300
Db      406 AGTGTCTTGGGGGTCAAGCTGACCAAGCTGAAGTCTATGGGACCTTCACTGCTCCATC 465
QY      301 CAGAACATCAGCTTCTCTCTCTTCACTCTTCAAGAGAGCTGGCCCTTCAAGACCGTGGCT 360
Db      466 CAGAACATCAGCTTCTCTCTCTTCACTCTTCAAGAGAGCTGGCCCTTCAAGACCGTGGCT 525
QY      361 GCGGTCTGGCTTCTCTCTCTGCTCTGCTGGCCCTTCTGCTCTGCTCTTATGTC 420
Db      526 GCGGTCTGGCTTCTCTCTCTGCTCTGCTGGCCCTTCTGCTCTGCTCTTATGTC 585
QY      421 AAGTCCCTCTCAACAGCTGCTCTGCTACCAAGAGCGCTTATGGGAGGTGAGATAAAC 480
Db      586 AAGTCCCTCTCAACAGCTGCTCTGCTACCAAGAGCGCTTATGGGAGGTGAGATAAAC 645
QY      481 GACGGAGACCTTACAGACGCTACGCTCTCTACAGGACTGCCCGAGGACCGCAAGTTC 540
Db      646 GACGGAGACCTTACAGACGCTACGCTCTCTACAGGACTGCCCGAGGACCGCAAGTTC 705
QY      541 GTGAATTCATCTCTTAAGCCGCAAGCTGAGCGGCGT--CGGGCTTCAAGCTTCTCTG 598
Db      706 GTGAATTCATCTCTTAAGCCGCAAGCTGAGCGGCGCTTCAAGCTTCTCTG 765
QY      599 ACGACCGGACCTCTGCGCCGC 621
Db      766 ACGAACGGACCTCTGCGCCGC 788
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RESULT 14
LOCUS   BX341382               1003 bp      mRNA      linear      EST 07-APR-2004
DEFINITION BX341382 Homo sapiens T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED
Homo sapiens cDNA clone CS0DJ015YD03 5-PRIME, mRNA sequence.
ACCESSION BX341382
VERSION   BX341382.2
KEYWORDS  EST.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
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REFERENCE 1 (bases 1 to 1003)
AUTHORS   Li, W.B., Gruber, C., Jessee, J., and Polayes, D.
TITLES    Full-length cDNA libraries and normalization
JOURNAL   Unpublished (2001)
COMMENT   On May 2, 2003 this sequence version replaced gi:30341987.
```

```
Contact: Genoscope
Genoscope - Centre National de Sequencage
2 rue Gaston Cremlieux, CP 5706 - 91057 EVRY cedex - FRANCE
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime
end enriched, double-strand cDNA was digested with Not I and EcoR V
into the Not I and EcoR V sites of the pCMVSPORT 6 vector. Library
was normalized. Library was constructed by Life Technologies, a
division of Invitrogen.
```

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FEATURES             Location/Qualifiers
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                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="CS0DJ015YD03"
                     /cell_line="T CELLS (JURKAT CELL LINE) COT 10-NORMALIZED"
                     /cell_line="JURKAT"
                     /clone_11b="Homo sapiens T CELLS (JURKAT CELL LINE) COT
                     10-NORMALIZED"
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/note="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with Not I and EcoR V into the Not I and EcoR V
sites of the pCMVSPORT 6 vector. Library was normalized."
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ORIGIN

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Query Match      47.5%; Score 585.4; DB 5; Length 1003;
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QY	1079	GGCCTGTTTTTGAGAGCCATCAGCTCCACCGCACACCAAGTGGGGTCTCGCTGGAGAGA	1138
Db	421	GGCCTGTTTTTGAGAGCCATCAGCTCCACCGCACACCAAGTGGGGTCTCGCTGGAGAGA	480
QY	1139	GCCGAGCAGCGAAGTGAAGTCTCGGATCTCGGCTCGCGAACTACAGTGCCCGCAG	1198
Db	481	GCCGAGCAGCGAAGTGAAGTCTCGGATCTCGGCTCGCGAACTACAGTGCCCGCAG	540
QY	1199	ACTTCTACTGCTGCTGCCAAGATGATATGTAG	1233
Db	541	ACTTCTACTGCTGCTGCCAAGATGATATGTAG	575

Search completed: July 30, 2005, 01:21:04
 Job time : 4602 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 1, 2005, 13:42:41 ; Search time 165 Seconds

(without alignments)
961.041 Million cell updates/sec

Title: US-09-598-443-2

Perfect score: 2147
Sequence: 1 MPEVCDBAPFLSPSBDQVL.....GSRNYSARTDFCLVSKDM 410

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: A_Geneseq_16Dec04:*
2: geneseqp19808:*
3: geneseqp20008:*
4: geneseqp20018:*
5: geneseqp20028:*
6: geneseqp20038:*
7: geneseqp20038:*
8: geneseqp20048:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2147	100.0	410	2	AAV25426
2	2147	100.0	410	4	AAB61139
3	2147	100.0	410	6	ABO23241
4	2147	100.0	410	7	ADM56381
5	2147	100.0	410	8	ADP66745
6	2147	100.0	410	8	ADP19782
7	2147	100.0	410	8	ADO60255
8	2147	100.0	410	8	ADO20095
9	2147	100.0	410	8	ADO19087
10	2147	100.0	410	8	ADP54078
11	2147	100.0	410	8	ADP22970
12	1876	87.4	504	5	AAU66151
13	1876	87.4	504	7	ADJ17329
14	1876	87.4	504	8	ADG66253
15	1761	82.0	407	4	AAU17408
16	1761	82.0	407	4	AAU43652
17	1761	82.0	407	7	ADB94116
18	1761	82.0	407	8	ADM24673
19	1761	82.0	410	4	AAW43583
20	1761	82.0	410	8	ADM24604
21	1749	81.5	363	3	AAB58416
22	1265	58.9	329	8	ADP46560
23	1265	58.9	361	8	ADP46559
24	1124	52.4	289	5	ADR41506
25	974.5	45.4	212	4	AAW25854

26	631	29.4	164	8	ADP46561	ADP46561 Human col
27	542	25.2	113	5	ADK36203	Adk36203 Novel hum
28	267.5	12.5	658	2	AAV22164	AAV22164 Human TIG
29	267.5	12.5	686	2	AAV14128	AAV14128 Human IL-
30	267.5	12.5	686	5	AAE16567	AAE16567 Human int
31	267.5	12.5	686	5	ADP43986	ADP43986 Receptor
32	267.5	12.5	686	7	ADB31955	ADB31955 Human int
33	258.5	12.0	668	8	ABO84438	ABO84438 Mouse can
34	257.5	12.0	579	2	AAV14130	AAV14130 Human IL-
35	257.5	12.0	579	5	AAE16566	AAE16566 Human int
36	257.5	12.0	579	7	ADB31953	ADB31953 Human int
37	256.5	11.9	481	4	ABD10347	ABD10347 Human CDN
38	256.5	11.9	481	5	ABP66934	ABP66934 Human pol
39	256.5	11.9	486	2	AAV14129	AAV14129 Human IL-
40	256.5	11.9	486	5	AAE16575	AAE16575 Human int
41	256.5	11.9	486	7	ADB31971	ADB31971 Primate 1
42	256.5	11.9	668	5	AAE16589	AAE16589 Human int
43	256.5	11.9	668	7	ADB31986	ADB31986 Primate 1
44	256.5	11.9	696	3	AAV95298	AAV95298 Human Xre
45	256.5	11.9	696	4	AAW78808	AAW78808 Human pro

ALIGNMENTS

RESULT 1	AAV25426	standard; protein; 410 AA.
ID	AAV25426	
AC	AAV25426;	
XX		
DT	08-SEP-1999	(first entry)
XX		
DE	Human SIGIRR protein.	
XX		
KM	SIGIRR; anti-inflammatory; anti-autoimmune disease; chromosome 11;	
KW	interleukin-1 receptor; 11p15.5; arthropod-like multiplex congenita;	
KW	breast cancer; insulin-dependent diabetes; sickle cell anaemia;	
KW	bladder cancer; detection; cell-signal transduction; gene therapy;	
KW	immune regulation; cell proliferation; cell death; cell migration;	
KW	cell interaction; inflammation; marker; mass spectrometry; human.	
XX		
OS	Homo sapiens.	
XX		
PN	WO9932626-A1.	
XX		
PD	01-JUL-1999.	
XX		
PF	23-DEC-1998;	98WO-US027368.
XX		
PR	23-DEC-1997;	97US-0068770P.
XX		
PA	(IMMV) IMMUNEX CORP.	
XX		
PI	Sims JE;	
XX		
DR	WPI; 1999-418925/35.	
DR	N-PSDB; AAX88091.	
XX		
PT	New interleukin-1 receptor analog SIGIRR nucleic acid and proteins.	
XX		
PS	Claim 2, Page 69-71; 72pp; English.	
XX		
CC	This invention describes a novel human SIGIRR DNA, its allelic variants or species homologues which have anti-inflammatory and anti-autoimmune disease activity. SIGIRR is an analog of interleukin-1 receptor. The products of the invention are used (a) as probes or primers for identifying human chromosome 11, to map genes on this chromosome and to identify disease-related genes (particularly in the region 11p15.5 where genes are present associated with e.g. arthropod-like multiplex congenita, breast cancer, insulin-dependent diabetes, sickle cell anaemia, bladder cancer), including detection of defective genes; (c) to	

CC study cell-signal transduction and the SigrR system, and (d) in gene
CC therapy. Sense and antisense oligonucleotides can be used to inhibit
CC expression of the SigrR gene. The proteins of the invention are used:
CC (1) to study cellular processes (immune regulation, proliferation, death,
CC migration, interaction with other cells and inflammation); (ii) to
CC identify and purify proteins that associate with SigrR ligands and
CC receptors, and to measure their biological activity; (iii) in screening
CC for, and rational design of, potential inhibitors of activity; (iv)
CC therapeutically against diseases mediated by SigrR polypeptide counter-
CC structures; (v) as molecular weight (m.w.) markers in electrophoresis;
CC (vi) for determining isoelectric points of unknown proteins; (vii) as
CC controls for determining the extent of protein fragmentation (e.g. to aid
CC characterization of protein structures by mass spectrometry); (viii) for
CC generation of antibodies (Ab); (ix) to deliver diagnostic or therapeutic
CC agents to cells that express SigrR binding molecules

XX Sequence 410 AA;

Query Match 100.0%; Score 2147; DB 2; Length 410;
Best Local Similarity 100.0%; Pred. No. 1.2e-218;
Matches 410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPEVCDBRDPFLSPSEDOVLRPALGSSVALNCTAMVSGPHCSLPSVQMLKDGLPJGIG 60
DB 1 MPEVCDBRDPFLSPSEDOVLRPALGSSVALNCTAMVSGPHCSLPSVQMLKDGLPJGIG 60
QY 61 HYSLHEYSWKANLSEVLVSGLVNTSTEVYGAFTCSIQNISSFSFTLQRAGPTSHVA 120
DB 61 HYSLHEYSWKANLSEVLVSGLVNTSTEVYGAFTCSIQNISSFSFTLQRAGPTSHVA 120
QY 121 AVASLILVLLALLAALILVYKCRNLVLMYQDAYGVEINDGKLYDAYVSYSDCPEDRKF 180
DB 121 AVASLILVLLALLAALILVYKCRNLVLMYQDAYGVEINDGKLYDAYVSYSDCPEDRKF 180
QY 181 VNFILKPOLERRRGYKFLDDBDLPRAPSADILVNLSCRRLIIVLSDAFLSRACSH 240
DB 181 VNFILKPOLERRRGYKFLDDBDLPRAPSADILVNLSCRRLIIVLSDAFLSRACSH 240
QY 241 SPFEGLCRLLELTRRPIFTFEGQRDPAPRALRLRQHRHLVTLMLRGSVTPSSDFW 300
DB 241 SPFEGLCRLLELTRRPIFTFEGQRDPAPRALRLRQHRHLVTLMLRGSVTPSSDFW 300
QY 301 KEVQALAPRKVRYRPVGGPQTOLODDKDPMLILRGVPEGRALDSEVDPDPGDLGVRG 360
DB 301 KEVQALAPRKVRYRPVGGPQTOLODDKDPMLILRGVPEGRALDSEVDPDPGDLGVRG 360
QY 361 PVGGEPSAPPHTSGVSLGSRSSSEVDVSDLSRNYSAKTDFTCLVSKDM 410
DB 361 PVGGEPSAPPHTSGVSLGSRSSSEVDVSDLSRNYSAKTDFTCLVSKDM 410

RESULT 2

ID AAB61139 standard; protein; 410 AA.

AC AAB61139;

DT 30-MAR-2001 (first entry)

DE Human NOV9 protein.

XX Human; NOVX; antiinflammatory; cytostatic; neuroprotective;

KM cerebroprotective; immunomodulator; vulnerary; vasotropic; gene therapy;

KM hyperplasia; tumour; restenosis; psoriasis; Dupuytren's contracture;

XX diabetes; rheumatoid arthritis; cerebral oedema; Alzheimer's disease.

OS Homo sapiens.

XX MO2000075321-A2.

XX 14-DEC-2000.

XX 01-JUN-2000; 2000MO-US015303.

XX 03-JUN-1999; 99US-0137322P.
PR 16-MAR-2000; 2000US-0189810P.
PR 22-MAR-2000; 2000US-0191158P.
PR 30-MAR-2000; 2000US-0193086P.
PR 31-MAY-2000; 2000US-00137322.

XX (CURA-) CURAGEN CORP.

XX Shimkete RA, Fernandes E, Herrman U, Vernet C;

XX MPI; 2001-102403/11.

DR N-PSDB; AAF27857.

PT New NOVX polypeptides and polynucleotides, useful in gene therapy, as a

PT diagnostic marker, protein therapeutic, antibody or small molecule drug

PT target for treating immune, proliferative and metabolic diseases and

PT wound healing.

PS Claim 1; Page 36-38; 194pp; English.

CC The present sequence is a new isolated polypeptide (NOVX). The NOVX

CC polypeptides, NOVX nucleic acids, and anti-NOVX antibodies are useful for

CC treating or preventing NOVX-associated disorders. They are also useful

CC for determining the presence of or a predisposition to a disease

CC associated with altered levels of the NOVX polypeptide or nucleic acid.

CC These NOVX-associated disorders include hyperplasias, tumours,

CC restenosis, psoriasis, Dupuytren's contracture, diabetic complications,

CC rheumatoid arthritis, cerebral lesions, diabetic neuropathies, cerebral

CC oedema, senile dementia or Alzheimer's disease. The NOVX polynucleotides

CC are especially useful in gene therapy. Specifically, NOVX is useful as a

CC diagnostic marker or prognostic marker, protein therapeutic and antibody

CC target or small molecule drug target to treat disorders in the immune

CC response pathway, thyroid and metabolic diseases, bone metabolic

CC disorders, diseases of the pancreas (e.g. diabetes or digestive

CC disorders), proliferative diseases, or tissue regeneration and

CC development (e.g. wound healing or treatment of burns)

XX Sequence 410 AA;

Query Match 100.0%; Score 2147; DB 4; Length 410;
Best Local Similarity 100.0%; Pred. No. 1.2e-218;
Matches 410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPEVCDBRDPFLSPSEDOVLRPALGSSVALNCTAMVSGPHCSLPSVQMLKDGLPJGIG 60
DB 1 MPEVCDBRDPFLSPSEDOVLRPALGSSVALNCTAMVSGPHCSLPSVQMLKDGLPJGIG 60
QY 61 HYSLHEYSWKANLSEVLVSGLVNTSTEVYGAFTCSIQNISSFSFTLQRAGPTSHVA 120
DB 61 HYSLHEYSWKANLSEVLVSGLVNTSTEVYGAFTCSIQNISSFSFTLQRAGPTSHVA 120
QY 121 AVASLILVLLALLAALILVYKCRNLVLMYQDAYGVEINDGKLYDAYVSYSDCPEDRKF 180
DB 121 AVASLILVLLALLAALILVYKCRNLVLMYQDAYGVEINDGKLYDAYVSYSDCPEDRKF 180
QY 181 VNFILKPOLERRRGYKFLDDBDLPRAPSADILVNLSCRRLIIVLSDAFLSRACSH 240
DB 181 VNFILKPOLERRRGYKFLDDBDLPRAPSADILVNLSCRRLIIVLSDAFLSRACSH 240
QY 241 SPFEGLCRLLELTRRPIFTFEGQRDPAPRALRLRQHRHLVTLMLRGSVTPSSDFW 300
DB 241 SPFEGLCRLLELTRRPIFTFEGQRDPAPRALRLRQHRHLVTLMLRGSVTPSSDFW 300
QY 301 KEVQALAPRKVRYRPVGGPQTOLODDKDPMLILRGVPEGRALDSEVDPDPGDLGVRG 360
DB 301 KEVQALAPRKVRYRPVGGPQTOLODDKDPMLILRGVPEGRALDSEVDPDPGDLGVRG 360
QY 361 PVGGEPSAPPHTSGVSLGSRSSSEVDVSDLSRNYSAKTDFTCLVSKDM 410
DB 361 PVGGEPSAPPHTSGVSLGSRSSSEVDVSDLSRNYSAKTDFTCLVSKDM 410

RESULT 3
AB023241
ID AB023241 standard; protein: 410 AA.
XX
XX
XX
XX
AC AB023241;
AD
DT 03-SEP-2003 (first entry)
XX
XX
DE Human breast tumour associated protein 47-like polypeptide NOV9.
XX
XX
XX Tissue typing; cancer; breast cancer; colon cancer; lung cancer; sarcoma;
XX pancreatic cancer; uterine cancer; organ transplantation disorder;
XX cardiovascular disease; melanoma; atherosclerosis; diabetes mellitus;
XX ischaemic heart disease; haemorrhage; peripheral vascular disease;
XX thrombosis; hypertension; systemic lupus erythematosus; haematopoiesis;
XX tissue regeneration; wound healing; hyperproliferative disorder;
XX psoriasis; neural disorder; Parkinson's disease; Alzheimer's disease;
XX Huntington's disease; multiple sclerosis; amyotrophic lateral sclerosis;
XX ALS; peripheral neuropathy; nervous system tumour; neurotoxin; tremor;
XX neuropathy; acute brain injury; peripheral nerve trauma; human; NOV9;
XX gene therapy; epilepsy; breast tumour associated protein 47.
XX
XX Homo sapiens.
OS
XX US2003027158-A1.
PN
XX
XX
XX 06-FEB-2003.
PD
XX
XX 15-OCT-2001; 2001US-00977418.
PF
XX
XX 03-JUN-1999; 99US-0137322P.
PR 16-MAR-2000; 2000US-0189810P.
PR 22-MAR-2000; 2000US-0181158P.
PR 30-MAR-2000; 2000US-0193086P.
PR 03-MAY-2000; 2000US-0201388P.
PR 31-MAY-2000; 2000US-00584411.
XX
XX (CURA-) CURAGEN CORP.
PA
XX
PI Shimkets RA, Fernandes E, Herman J, Vernet C;
XX
XX WPI; 2003-492028/46.
DR N-PSDB; ACDA0262.
XX
XX
XX New nucleic acid sequence encoding a human breast tumor-associated
PT protein 47-like polypeptide, useful for treating cardiovascular
PT disorders, neural disorders, diabetes mellitus and cancers.
XX
XX
XX Disclosure; Page 24-25; 100pp; English.
PS
XX
XX The invention relates to a new isolated NOVA nucleic acid. The nucleic
CC acid is useful for identifying a compound that binds the nucleic acid.
CC The nucleic acid is useful in gene therapy, in screening assays, in
CC detection assays e.g. chromosomal mapping, cell and tissue typing and
CC forensic biology, predictive medicine e.g. diagnostic assays, prognostic
CC assays, monitoring clinical trials and pharmacogenomics and methods of
CC treatment including therapeutic and prophylactic. The nucleic acid is
CC also useful for expressing NOV9 protein. The nucleic acid is also useful
CC to provide polynucleotide reagents e.g. labelled probes that are useful
CC in an in situ hybridization technique, for identifying a specific tissue
CC (for example brain tissue) and for use in forensic science. The nucleic
CC acid is also useful for mapping genes on a chromosome and thus locating
CC gene regions associated with genetic disease, identifying an individual
CC from a minute biological sample and to aid in forensic identification of
CC biological sample. The nucleic acid is also useful for treating cancer,
CC especially cancers of the breast, colon, lung, pancreas or uterus, or a
CC melanoma or sarcoma. The nucleic acid is also useful for treating
CC disorders related to organ transplantation, cardiovascular diseases,
CC atherosclerosis, ischaemic heart disease, haemorrhage, diabetes mellitus,
CC peripheral vascular disease, thrombosis, hypertension and systemic lupus
CC erythematosus. NOV9 protein encoded by the nucleic acid is useful for
CC regulating haematopoiesis, for regeneration of bone, cartilage, tendon
CC ligament and/or nerve tissue growth or regeneration and for wound

CC healing. The nucleic acid is also useful for treating infections,
CC hyperproliferative disorders e.g. psoriasis, and neural disorders
CC including Parkinson's disease, Alzheimer's disease, Huntington's disease,
CC multiple sclerosis, amyotrophic lateral sclerosis (ALS), peripheral
CC neuropathy, tumours of the nervous system, exposure to neurotoxins, acute
CC brain injury, peripheral nerve trauma or injury and other neuropathies,
CC epilepsy, and/or tremors. The present sequence represents the amino acid
CC sequence of a human breast tumour associated protein 47-like polypeptide
XX
XX
SQ Sequence 410 AA;
Query Match 100.0%; Score 2147; DB 6; Length 410;
Best Local Similarity 100.0%; Pred. No. 1,2e-218; Mismatches 0; Gaps 0;
Matches 410; Conservative 0; Indels 0;
QY 1 MPGVCDRAPDPLSPEDQVLRPALGSSVALNCTAMVVGPHCSLPVQWLKDGPLGIGG 60
DB 1 MPGVCDRAPDPLSPEDQVLRPALGSSVALNCTAMVVGPHCSLPVQWLKDGPLGIGG 60
QY 61 HYSLHEYSWKANLSEVLVSSVLGVNTSTBYVGAFTCSIONISFSSFTLQAGPTSHA 120
DB 61 HYSLHEYSWKANLSEVLVSSVLGVNTSTBYVGAFTCSIONISFSSFTLQAGPTSHA 120
QY 121 AVLASLVLAL 180
DB 121 AVLASLVLAL 180
QY 181 VNFILKQLEBRRRGYKFLDPRDLPRAPPSADLLVLSRCRLIVLSDAFLSRAMCSH 240
DB 181 VNFILKQLEBRRRGYKFLDPRDLPRAPPSADLLVLSRCRLIVLSDAFLSRAMCSH 240
QY 241 SFREGCLRLLELTRPFIITFEQGRDPAPALRLRQHRLLVTLMLRPGSVTPSSDFW 300
DB 241 SFREGCLRLLELTRPFIITFEQGRDPAPALRLRQHRLLVTLMLRPGSVTPSSDFW 300
QY 301 KEVQDALPRKYRYPVGGDQDTOLQDDKDPMLIRGVPESRALDSEVDPPEGLDVRG 360
DB 301 KEVQDALPRKYRYPVGGDQDTOLQDDKDPMLIRGVPESRALDSEVDPPEGLDVRG 360
QY 361 PVFGPSAPPHTSQVSLGSSRSSSEVDVSDLSGRNYSARTFYCLVSKDDM 410
DB 361 PVFGPSAPPHTSQVSLGSSRSSSEVDVSDLSGRNYSARTFYCLVSKDDM 410
RESULT 4
ADM56381
ID ADM56381 standard; protein: 410 AA.
XX
XX
XX ADM56381;
AC
XX
XX 03-JUN-2004 (first entry)
DT
XX
XX Human cell adhesion molecule NOV9.
DE
XX
XX Human, cell adhesion molecule; NOV9; cancer; leukaemia; lymphoma;
XX melanoma; neurological disorder; epilepsy;
XX ischaemic cerebrovascular disease; stroke; Alzheimer's disease;
XX Plck's disease; vesicular transport disorder; cystic fibrosis;
XX diabetes mellitus; Grave's disease; goiter; gastrointestinal disorder;
XX ulcerative colitis; gastric ulcer; duodenal disorder; autoimmune disease;
XX allergic reaction; autoimmune hemolytic anaemia; rheumatoid arthritis;
XX viral infection; bacterial infection; fungal infection;
XX helminthic infection; protozoal infections.
OS
XX Homo sapiens.
PN
XX US2003082554-A1.
XX
XX 01-MAY-2003.
PD
XX
XX 15-OCT-2001; 2001US-00977033.
PF
XX
XX 03-JUN-1999; 99US-0137322P.

PR 16-MAR-2000; 2000US-0189810P.
 PR 22-MAR-2000; 2000US-0191158P.
 PR 30-MAR-2000; 2000US-0193086P.
 PR 03-MAY-2000; 2000US-0201388P.
 PR 31-MAY-2000; 2000US-00584411.
 XX
 PA (CURA-) CURAGEN CORP.
 XX
 PI Shimkete RA, Fernandes E, Herrman J, Vernet C;
 XX
 DR WPI; 2003-616079/59.
 XX N-PSDB; ADM56382.
 PT
 PT New nucleic acids encoding human cell adhesion molecule-like proteins,
 useful for treating e.g. cancers, neurological disorders, viral,
 bacterial, fungal, helminthic and protozoal infections.
 PS
 PS Disclosure; SEQ ID NO 18; 78bp; English.

CC The invention relates to an isolated nucleic acid encoding a human cell
 CC adhesion molecule-like protein, comprising a sequence encoding a
 CC polypeptide having a sequence appearing as ADM56387, a sequence at least
 CC 90% identical to the nucleic acid, a sequence encoding a polypeptide
 CC having conservative amino acid substitutions to the protein or a fragment
 CC comprising at least 20 nucleotides. Also included are an oligonucleotide
 CC sequence that is complementary to (and hybridises under stringent
 CC conditions with) the nucleic acid (or a portion of it), a vector
 CC comprising the nucleic acid, a cell comprising the vector, a
 CC pharmaceutical composition comprising the nucleic acid and a
 CC process for identifying a compound that binds the nucleic acid, and a
 CC compound identified by the process. Disclosed as new are the cDNA and
 CC proteins for novel cell adhesion molecules (termed NOVX, being NOV1-23).
 CC The NOVX polypeptide, nucleic acid or antibody are useful in the
 CC manufacture of a medicament for treating a syndrome associated with a
 CC human disease selected from NOVX-associated disorder, such as cancers
 CC (e.g. leukaemia, lymphoma, melanoma or cancer of the liver, lung, muscle,
 CC ovary, testis and uterus), neurological disorders (e.g. epilepsy,
 CC ischemic cerebrovascular disease, stroke, Alzheimer's disease or Pick's
 CC disease), disorders of vesicular transport (e.g. cystic fibrosis,
 CC diabetes mellitus, Grave's disease, or goiter), gastrointestinal
 CC disorders (e.g. ulcerative colitis, or gastric and duodenal disorders),
 CC autoimmune diseases (e.g. allergic reactions, autoimmune hemolytic
 CC anaemia, or rheumatoid arthritis), viral, bacterial, fungal, helminthic
 CC and protozoal infections. The polypeptides can be used as immunogens to
 CC produce antibodies and as vaccines. The sequences may further be used in
 CC chromosome mapping, identifying individual from minute biological samples
 CC (tissue typing), and in forensic identification of a biological sample.
 CC NOTE: The authors have mis-labelled the sequences as they appear on pages
 CC 12-28 of the patent, it is clear from table 3, the examples and the
 CC claims that the SEQ ID numbers for the cDNAs should be the odd numbers
 CC from 1-45 and the proteins should be the even numbers from 2-46. The
 CC present sequence represents a NOVX cell adhesion molecule of the
 CC invention.
 XX
 XX Sequence 410 AA;

Query Match 100.0%; Score 2147; DB 7; Length 410;
 Best Local Similarity 100.0%; Pred. No. 1.2e-218;
 Matches 410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPGVCDBAPDPLSPSEDOVLRPALGSSVALNCTAWVYSGHCSLPVQMLKDGILPGLGIG 60
 DB 1 MPGVCDBAPDPLSPSEDOVLRPALGSSVALNCTAWVYSGHCSLPVQMLKDGILPGLGIG 60
 QY 61 HYSLHEYSWVKANLSEVLVSVLGVTSTEVGAFTCSIONTSFSSFTLQRAFGPTSHVA 120
 DB 61 HYSLHEYSWVKANLSEVLVSVLGVTSTEVGAFTCSIONTSFSSFTLQRAFGPTSHVA 120
 QY 121 AVTASLVLALLLALLLALYYKCRNLVLTWQDAYGEVINDGKLYDAYVYSIDCEPERKF 180
 DB 121 AVTASLVLALLLALLLALYYKCRNLVLTWQDAYGEVINDGKLYDAYVYSIDCEPERKF 180

QY 181 VNFILKPOLERRRGYCLFDDBDILLPRAEPSADLVNLSCRRLLVVLSDAFSLRAMCSH 240
 DB 181 VNFILKPOLERRRGYCLFDDBDILLPRAEPSADLVNLSCRRLLVVLSDAFSLRAMCSH 240
 QY 241 SFREGICRLLELTRRPIFTTFEGQRRDPAPALRLIRQRHLLVTLMLRPGSVTPSSDEM 300
 DB 241 SFREGICRLLELTRRPIFTTFEGQRRDPAPALRLIRQRHLLVTLMLRPGSVTPSSDEM 300
 QY 301 KEVQALPFRKVRYPPEGDPQTOLODDKDPMLILRQVREGALDSEVPDPPEGDLGVNG 360
 DB 301 KEVQALPFRKVRYPPEGDPQTOLODDKDPMLILRQVREGALDSEVPDPPEGDLGVNG 360
 QY 361 PVFGEPSAPHTSGVSLGESRSSEVDVSDLSGRNYSARTDPYCLVSKDMM 410
 DB 361 PVFGEPSAPHTSGVSLGESRSSEVDVSDLSGRNYSARTDPYCLVSKDMM 410

RESULT 5
 ADF66745
 ID ADF66745 standard; protein; 410 AA.

AC ADF66745;
 DT 12-FEB-2004 (first entry)
 XX
 DE Novel human protein NOV9.

KW cytostatic; hepatotropic; vulnary; antiporiatic; osteopathic;
 KW antirhythmic; antiatherosclerotic; haemostatic; vasotropic;
 KW thrombolytic; antidiabetic; hypotensive; dermatological;
 KW immunosuppressive; antineoplastic; immunostimulant; fungicide;
 KW virocid; protozoicide; neuroprotective; antirheumatic; antiarthritic;
 KW antistatic; antiparkinsonian; nootropic; anticonulant;
 KW NOVX modulator; cancer; hypertrophy; osteoarthritis;
 KW psoriasis; tissue hypertrophy; osteoarthritis;
 KW atherosclerotic plaque formation; haemorrhage; ischaemic disease;
 KW thrombosis; diabetes mellitus; hypertension; hypothyroidism;
 KW immune deficiency; severe combined immunodeficiency; SCID; infection;
 KW malaria; candidiasis; autoimmune disorder; connective tissue disease;
 KW multiple sclerosis; systemic lupus; erythema multiforme; rheumatoid arthritis;
 KW autoimmune pulmonary inflammation; Guillain-Barre syndrome;
 KW autoimmune thyroiditis; insulin dependent diabetes mellitus;
 KW myasthenia gravis; graft-versus-host disease;
 KW autoimmune inflammatory eye disease; asthma; haematopoiesis;
 KW tissue regeneration; wound healing; tissue repair; burn; incision; ulcer;
 KW periodontal disease; Alzheimer's disease; Parkinson's disease;
 KW Huntington's disease; amyotrophic lateral sclerosis; Shy-Drager syndrome;
 KW human.

OS Homo sapiens.

PN US200319103-A1.

PD 23-OCT-2003.

PF 15-OCT-2001; 2001US-00977639.

PR 03-UTR-1999; 99US-0137322P.
 PR 16-MAR-2000; 2000US-0189810P.
 PR 22-MAR-2000; 2000US-0191158P.
 PR 30-MAR-2000; 2000US-0193086P.
 PR 03-MAY-2000; 2000US-0201388P.
 PR 31-MAY-2000; 2000US-00584411.

PA (CURA-) CURAGEN CORP.

PI Shimkete RA, Fernandes E, Herrman J, Vernet C;

DR WPI; 2004-021196/02.

DR N-PSDB; ADF66744.

PT Novel substantially NOVX polypeptide useful for diagnosing, preventing
 and treating diseases e.g., cancer, multiple sclerosis, systemic lupus

FT erythematous.
 XX
 PS Disclosure; SEQ ID NO 18; 165pp; English.
 XX
 CC The invention describes a substantially purified polypeptide (1) having
 CC amino acid sequence chosen from a fully defined NOVX sequence (S1) of 708
 CC amino acids as given in the specification, or polypeptide having one or
 CC more conservative amino acid substitutions of (S1), or mutant or variant
 CC of (S1). (1) having (S1) is useful for diagnosing a pathological
 CC condition associated with (1) or its activity in a subject e.g. cancer.
 CC (1) useful in treatment of cancer, hyperproliferative diseases,
 CC cataracts, keloid, psoriasis, tissue hypertrophy, osteoarthritis,
 CC atherosclerotic plaque formation, haemorrhage, ischaemic heart or renal
 CC disease, thrombosis, diabetes mellitus, hypertension, hypothyroidism. (1)
 CC is useful in treatment of various immune deficiencies and disorders such
 CC as severe combined immunodeficiency (SCID), bacterial infection, viral
 CC infection such as herpes viral infection, protozoan infection such as
 CC malaria, fungal infection such as candidiasis. (1) is also useful in
 CC treating autoimmune disorders such as connective tissue disease, multiple
 CC sclerosis, systemic lupus erythematosus, rheumatoid arthritis,
 CC autoimmune pulmonary inflammation, Guillain-Barre syndrome, autoimmune
 CC thyroiditis, insulin dependent diabetes mellitus, myasthenia gravis,
 CC graft-versus-host disease and autoimmune inflammatory eye disease and
 CC asthma. (1) useful in regulation of haematopoiesis, regeneration and
 CC tissue growth of bone, cartilage, tendon, ligament and useful for wound
 CC healing and tissue repair. (1) is also useful in treatment of burns,
 CC infections and ulcers. (1) also useful in treatment of periodontal
 CC disease, Alzheimer's disease, Parkinson's disease, Huntington's disease,
 CC amyotrophic lateral sclerosis, and Shy-Drager syndrome. (1) has effective
 CC antitumour and anti-inflammatory activity. This is the amino acid sequence
 CC of a novel human NOVX protein.

XX Sequence 410 AA:

Query Match 100.0%; Score 2147; DB 8; Length 410;
 Best Local Similarity 100.0%; Pred. No. 1.2e-218;
 Matches 410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPGVCDRAPDFLSPSEDOVLRPALGSSVALNCTAMVVSCHCLPSVQMLKDGILPGLIGG 60
 DB 1 MPGVCDRAPDFLSPSEDOVLRPALGSSVALNCTAMVVSCHCLPSVQMLKDGILPGLIGG 60
 QY HYSLHEYSWKANLSEVLVSGLVNTSTEVGAFCSIONTSFSSFTLORAGPTSHVA 120
 DB HYSLHEYSWKANLSEVLVSGLVNTSTEVGAFCSIONTSFSSFTLORAGPTSHVA 120
 QY 121 AVLASLVLALLLALLLVKCRNLVLLMTODAYGEVEINDGKLYDAYVSVDCEPDREKF 180
 DB 121 AVLASLVLALLLALLLVKCRNLVLLMTODAYGEVEINDGKLYDAYVSVDCEPDREKF 180
 QY 181 VNFILKQLERRRGYKFLDDRDLPPAEPADLLVLSRCRLLIVLSDAFISRAWCSH 240
 DB 181 VNFILKQLERRRGYKFLDDRDLPPAEPADLLVLSRCRLLIVLSDAFISRAWCSH 240
 QY 241 SPFEGLCRLLELRRPIFITFEGGRDPAHPALRLLOHNLVTLMLRGSVTPSSDFW 300
 DB 241 SPFEGLCRLLELRRPIFITFEGGRDPAHPALRLLOHNLVTLMLRGSVTPSSDFW 300
 QY 301 KEVQALPRKRYRYPVGDPTQLODDKPMILLGRVPEGRALDSEVDPDEGLGVRG 360
 DB 301 KEVQALPRKRYRYPVGDPTQLODDKPMILLGRVPEGRALDSEVDPDEGLGVRG 360
 QY 361 PVGGEPSAPPHPTGVSIGESRSSSEVDVSDIGSRNYSARTDPYCLVSKDDM 410
 DB 361 PVGGEPSAPPHPTGVSIGESRSSSEVDVSDIGSRNYSARTDPYCLVSKDDM 410

RESULT 6
 ADI19782
 ID ADI19782 standard; protein; 410 AA.
 XX
 AC ADI19782;
 XX

DT 22-APR-2004 (first entry)
 XX
 DE Human NOV9 protein.
 XX
 KW Secreted protein; NOVX; diagnosis; metabolic disorder; diabetes; obesity;
 KW infection; anorexia; cancer; cardiovascular disease; hypertension;
 KW atherosclerosis; neurodegenerative disorder; Alzheimer's disease;
 KW Parkinson's disease; epilepsy; immune disorder; osteoarthritis;
 KW haematopoietic disorder; inflammatory skin disorder; asthma;
 KW dyslipidemia; neurogenesis; cell differentiation; cell proliferation;
 KW haematopoiesis; wound healing; angiogenesis; chromosome mapping;
 KW tissue typing; preventive medicine; pharmacogenomics; gene therapy;
 KW anorectic; cardiac; vitruide; antibacterial; fungicide; protozoacide;
 KW neurotropic; neuroprotective; dermatological; human.
 XX
 OS Homo sapiens.
 XX
 PH Key Location/Qualifiers
 FT Misc-difference 37
 FT Domain /note= "Encoded by NTC"
 FT 138..410
 FT /note = Extracellular domain
 PN US2004002134-A1.
 XX
 PD 01-JAN-2004.
 XX
 PP 15-OCT-2001; 2001US-00977819.
 XX
 PR 03-JUN-1999; 99US-0137322P.
 PR 16-MAR-2000; 2000US-0189810P.
 PR 22-MAR-2000; 2000US-0191158P.
 PR 30-MAR-2000; 2000US-0193086P.
 PR 03-MAY-2000; 2000US-0201388P.
 PR 31-MAY-2000; 2000US-00584411.
 XX
 PA (CURA-) CURAGEN CORP.
 XX
 PI Shimkets RA, Fernandes ER, Herrman JL, Vernet CAM;
 XX
 DR WPI; 2004-070737/07.
 XX
 PT New NOVX nucleic acids encoding human KIAA0768 protein-like and human
 PT protein PRO-228 polypeptides, useful for treating NOVX-associated
 PT disorders.
 XX
 PS Disclosure; SEQ ID NO 18; 95pp; English.
 XX
 CC The present invention is based in part on the discovery of novel secreted
 CC and membrane-bound polypeptides and their encoding polynucleotides. The
 CC nucleic acids and polypeptides are collectively referred as NOVX. The
 CC invention is useful for treating, preventing and diagnosing diseases such
 CC as metabolic disorders, diabetes, obesity, infectious diseases such as
 CC viral, bacterial, fungal, helminthic and protozoal infections, anorexia,
 CC cancer, cardiovascular diseases such as hypertension and atherosclerosis,
 CC neurodegenerative disorders, Alzheimer's disease, Parkinson's disease,
 CC epilepsy, immune disorders such as osteoarthritis, haematopoietic
 CC disorders, inflammatory skin disorders, asthma and various dyslipidemias.
 CC The invention is also useful as targets for the identification of small
 CC molecules that modulate or inhibit e.g. neurogenesis, cell
 CC differentiation, cell proliferation, haematopoiesis, wound healing and
 CC angiogenesis, as hybridisation probes, in chromosome mapping, tissue
 CC typing, preventive medicine and pharmacogenomics. The invention is also
 CC useful in gene therapy. The present sequence is human NOV protein.

QY 1 MPGVCDRAPDFLSPSEDOVLRPALGSSVALNCTAMVVSCHCLPSVQMLKDGILPGLIGG 60
 Query Match 100.0%; Score 2147; DB 8; Length 410;
 Best Local Similarity 100.0%; Pred. No. 1.2e-218;
 Matches 410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 1 MPVCDBADPFLSPSEDOVLPRALGSSVALNCTAMWVSGPHCSLPBVQMLKDGLPLGIG 60
QY 61 HYSLSHYSWVKANLSEVLVSSVLGVNVTSTEVYGAFTCSIQNI SFSSFTLQRA GPTSHVA 120
Db 61 HYSLSHYSWVKANLSEVLVSSVLGVNVTSTEVYGAFTCSIQNI SFSSFTLQRA GPTSHVA 120
QY 121 AVLASLLVLTALLALLVYKCRNLVLMYQDAYGVEVINDGKLYDAYVYSDCPEDRK 180
Db 121 AVLASLLVLTALLALLVYKCRNLVLMYQDAYGVEVINDGKLYDAYVYSDCPEDRK 180
QY 181 VNFILKPOLERRRGYKFLDDBDLPRAEPSADLVNLSCRRLLIVLSDAFLSRAMCSH 240
Db 181 VNFILKPOLERRRGYKFLDDBDLPRAEPSADLVNLSCRRLLIVLSDAFLSRAMCSH 240
QY 241 SFREGICRLLELTRRPIFTTFEGQRDPAPALRLRQHRHLVTLMLRPGSVTPSSDPM 300
Db 241 SFREGICRLLELTRRPIFTTFEGQRDPAPALRLRQHRHLVTLMLRPGSVTPSSDPM 300
QY 301 KEVQALPRKVRYPVEGDPQTOLDDKPMILIRGVPEGRALDSEVDPDPEDLGVRG 360
Db 301 KEVQALPRKVRYPVEGDPQTOLDDKPMILIRGVPEGRALDSEVDPDPEDLGVRG 360
QY 361 PVGEPAPPHTSQVSLGESRSSEVDVSDLSGRNYSARTDFYCLVSKDM 410
Db 361 PVGEPAPPHTSQVSLGESRSSEVDVSDLSGRNYSARTDFYCLVSKDM 410

RESULT 7
ADO60255
ID ADO60255 standard; protein; 410 AA.
XX ADO60255;
DT 15-JUL-2004 (first entry)
XX Human NOV9 protein.
XX
XX Human: NOV9 protein; cancer; hyperproliferative disease; cirrhosis;
XX keloid; psoriasis; tissue hypertrophy; osteoarthritis;
XX atherosclerotic plaque formation; haemorrhage; ischaemic heart disease;
XX renal disease; thrombosis; diabetes mellitus; hypertension;
XX hypochyroidism; severe combined immunodeficiency; SCID; infection;
XX malaria; candidiasis; autoimmune disorder; connective tissue disease;
XX multiple sclerosis; systemic lupus erythematosus; rheumatoid arthritis;
XX autoimmune pulmonary inflammation; Guillain-Barre syndrome;
XX autoimmune thyroiditis; myasthenia gravis; graft-versus-host disease;
XX autoimmune inflammatory eye disease; asthma; burn; incision; ulcer;
XX periodontal disease; Alzheimer's disease; Parkinson's disease;
XX Huntington's disease; amyotrophic lateral sclerosis; Shy-Drager syndrome;
XX haemopoiesis; wound healing; tissue repair; antitumor;
XX antiinflammatory.
XX
XX Homo sapiens.
XX
XX US2003134430-A1.
XX
XX 17-JUL-2003.
XX
XX 15-OCT-2001; 2001US-00977751.
XX
XX 03-JUN-1999; 99US-0137322P.
XX 16-MAR-2000; 2000US-0189810P.
XX 22-MAR-2000; 2000US-0191158P.
XX 30-MAR-2000; 2000US-0193086P.
XX 03-MAY-2000; 2000US-0201388P.
XX 31-MAY-2000; 2000US-00584411.
XX
XX (CURA-) CURAGEN CORP.
XX
XX Shimkets RA, Fernandes E, Herrman J, Vernet C;
XX
XX WPI; 2004-068928/07.

DR N-PSDB; ADO60254.
XX
XX Novel substantially purified NOV9 polypeptide for treating severe
PT combined immunodeficiency, candidiasis, cancer, asthma, multiple
PT sclerosis, systemic lupus erythematosus.
XX
XX
XX Disclosure; SEQ ID NO 18; 155pp; English.
XX
XX The invention relates to human NOV9 polypeptides and polynucleotides.
CC NOV9 sequences are useful in the treatment of cancer, hyperproliferative
CC diseases, cirrhosis, keloid, psoriasis, tissue hypertrophy,
CC osteoarthritis, atherosclerotic plaque formation, haemorrhage, ischaemic
CC heart or renal disease, thrombosis, diabetes mellitus, hypertension,
CC hypochyroidism, asthma, burns, incisions, ulcers, periodontal disease,
CC Alzheimer's disease, Parkinson's disease, Huntington's disease,
CC amyotrophic lateral sclerosis, Shy-Drager syndrome, immune deficiencies
CC and disorders such as severe combined immunodeficiency (SCID), bacterial
CC infection, viral infection e.g. herpes viral infection, protozoan
CC infection e.g. malaria, fungal infection e.g. candidiasis, autoimmune
CC disorders such as connective tissue disease, multiple sclerosis, systemic
CC lupus erythematosus, rheumatoid arthritis, autoimmune pulmonary
CC inflammation, Guillain-Barre syndrome, autoimmune thyroiditis, insulin
CC dependent diabetes mellitus, myasthenia gravis, graft-versus-host disease
CC and autoimmune inflammatory eye disease. The invention is useful in
CC regeneration and tissue growth of bone, cartilage, tendon, ligament,
CC haemopoiesis regulation, wound healing and tissue repair. Sequences of
CC the invention also exhibit antitumor and antiinflammatory activities. The
CC present sequence is human NOV9 protein.
XX
XX Sequence 410 AA;

Query Match 100.0%; Score 2147; DB 8; Length 410;
Best Local Similarity 100.0%; Pred. No. 1.2e-218;
Matches 410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MPVCDBADPFLSPSEDOVLPRALGSSVALNCTAMWVSGPHCSLPBVQMLKDGLPLGIG 60
Db 1 MPVCDBADPFLSPSEDOVLPRALGSSVALNCTAMWVSGPHCSLPBVQMLKDGLPLGIG 60
QY 61 HYSLSHYSWVKANLSEVLVSSVLGVNVTSTEVYGAFTCSIQNI SFSSFTLQRA GPTSHVA 120
Db 61 HYSLSHYSWVKANLSEVLVSSVLGVNVTSTEVYGAFTCSIQNI SFSSFTLQRA GPTSHVA 120
QY 121 AVLASLLVLTALLALLVYKCRNLVLMYQDAYGVEVINDGKLYDAYVYSDCPEDRK 180
Db 121 AVLASLLVLTALLALLVYKCRNLVLMYQDAYGVEVINDGKLYDAYVYSDCPEDRK 180
QY 181 VNFILKPOLERRRGYKFLDDBDLPRAEPSADLVNLSCRRLLIVLSDAFLSRAMCSH 240
Db 181 VNFILKPOLERRRGYKFLDDBDLPRAEPSADLVNLSCRRLLIVLSDAFLSRAMCSH 240
QY 241 SFREGICRLLELTRRPIFTTFEGQRDPAPALRLRQHRHLVTLMLRPGSVTPSSDPM 300
Db 241 SFREGICRLLELTRRPIFTTFEGQRDPAPALRLRQHRHLVTLMLRPGSVTPSSDPM 300
QY 301 KEVQALPRKVRYPVEGDPQTOLDDKPMILIRGVPEGRALDSEVDPDPEDLGVRG 360
Db 301 KEVQALPRKVRYPVEGDPQTOLDDKPMILIRGVPEGRALDSEVDPDPEDLGVRG 360
QY 361 PVGEPAPPHTSQVSLGESRSSEVDVSDLSGRNYSARTDFYCLVSKDM 410
Db 361 PVGEPAPPHTSQVSLGESRSSEVDVSDLSGRNYSARTDFYCLVSKDM 410
RESULT 8
ADO20095
ID ADO20095 standard; protein; 410 AA.
XX ADO20095;
XX
XX 12-AUG-2004 (first entry)
XX
XX Human PRO polypeptide #502.
XX
XX

QY 1 MGVCDRAPDPLSPSEDQVLRPALGSSVALNCTAMVWSGPHCSLPVSQWIKDGLPIGIG 60
DB 1 MGVCDRAPDPLSPSEDQVLRPALGSSVALNCTAMVWSGPHCSLPVSQWIKDGLPIGIG 60
QY 61 HSLHEYSWVKANLSEVLVSSVGVNTSTEVYGAFTCSIQNTSFSFTLQRAGPTSHVA 120
DB 61 HSLHEYSWVKANLSEVLVSSVGVNTSTEVYGAFTCSIQNTSFSFTLQRAGPTSHVA 120
QY 121 AVIASLVLVLLALLAALLVYKCRNLVLLWQDAYGEVEINDGKLYDAYVYSDCPEDRK 180
DB 121 AVIASLVLVLLALLAALLVYKCRNLVLLWQDAYGEVEINDGKLYDAYVYSDCPEDRK 180
QY 181 VNFILKPOLERRRGYKFLDDBDRLPRAEBSADLVNLSRCRLIIVLSDAFLSRACSH 240
DB 181 VNFILKPOLERRRGYKFLDDBDRLPRAEBSADLVNLSRCRLIIVLSDAFLSRACSH 240
QY 241 SFREGLCRLLELTRRPIFTTFEGQRDPAPALRLRQHRHLVTLLMRGVTYPSDFW 300
DB 241 SFREGLCRLLELTRRPIFTTFEGQRDPAPALRLRQHRHLVTLLMRGVTYPSDFW 300
QY 301 KEVQALPRKVRYPVEGDPQTQDDKPMILIRGVPRGRALDSEVPDPEGDIGVRG 360
DB 301 KEVQALPRKVRYPVEGDPQTQDDKPMILIRGVPRGRALDSEVPDPEGDIGVRG 360
QY 361 PVGEPSPAPHTSGVSLGESRSSEVDVSDLSRNYSAKTDFTCLVSKDDM 410
DB 361 PVGEPSPAPHTSGVSLGESRSSEVDVSDLSRNYSAKTDFTCLVSKDDM 410

RESULT 10
ADP54078
ID ADP54078 standard; protein; 410 AA.

XX AC ADP54078;

DT 18-NOV-2004 (first entry)

XX DE Human PRO protein sequence SEQ ID NO:54.

XX KM human; PRO; immune related disease; inflammatory immune response;
immune response stimulation; antidiabetic; antianemic; antiarthritic;
antidiabetic; antidiabetic; antidiabetic; antidiabetic;
antidiabetic; antidiabetic; CNS; dermatological; gastroenteric;
haemostatic; hepatotropic; immunosuppressive; muscular;
nephrotropic; neuroprotective; osteopathic; respiratory; vasotropic;
vitruide; gene therapy.

XX OS Homo sapiens.

XX PN WO2004039556-A2.

PD 13-MAY-2004.

XX PF 28-OCT-2003; 2003WO-US034381.

XX PR 29-OCT-2002; 2002US-0422472P.

XX PA (GETH) GENENTECH INC.

XX PI Aggarwal S, Clark H, Gurney AL, Schoenfeld J, Williams PM;

XX PI Wood WI, Wu TD;

XX DR WPI; 2004-376182/35.

XX DR N-RSDB; ADP54077.

PT New PRO polynucleotides and polypeptides, useful in useful in diagnosing
PT and treating an immune related disease, e.g. systemic lupus
PT erythematosus, rheumatoid arthritis, diabetes mellitus or asthma and in
PT stimulating an immune response.

PS Claim 1, SEQ ID NO 54; 3009pp; English.

XX The present invention describes an isolated PRO nucleic acid (I). Also

CC described: (1) a vector comprising (1); (2) a host cell comprising the
CC vector of (1); (3) a process for producing a PRO polypeptides; (4) an
CC isolated PRO polypeptide; (5) a chimeric molecule comprising the
CC polypeptide of (4) fused to a heterologous amino acid sequence; (6) an
CC antibody which specifically binds to a polypeptide of (4); (7) a
CC composition of matter comprising a polypeptide of (4), an agonist or
CC antagonist of the polypeptide or an antibody that binds to the
CC polypeptide in combination with a carrier; (8) an article of manufacture
CC comprising a container, a label on the container and a composition of
CC matter of (7); (9) a method of treating an immune related disease in a
CC mammal; (10) a method for determining the presence of a PRO polypeptide
CC in a sample suspected of having the polypeptide; (11) a method of
CC diagnosing an immune related disease or an inflammatory immune response
CC in a mammal; (12) a method of identifying a compound that inhibits or
CC mimics the activity of or expression of a gene encoding a PRO polypeptide
CC; and (13) a method of stimulating the immune response in a mammal. The
CC PRO sequences have antiallergic, antianemic, antiarthritic,
CC antidiabetic, antidiabetic, antidiabetic, antidiabetic,
CC antidiabetic, antidiabetic, CNS, dermatological, gastroenteric,
CC haemostatic, hepatotropic, immunosuppressive, muscular,
CC nephrotropic, neuroprotective, osteopathic, respiratory, vasotropic and
CC vitruide activities, and can be used in gene therapy. The nucleic acid
CC (I) and the encoded polypeptides, compositions, kits and methods are
CC useful in diagnosing and treating an immune related disease and in
CC stimulating an immune response. The present sequence represents a human
CC PRO protein from the present invention.

SO Sequence 410 AA;

Query Match 100.0%; Score 2147; DB 8; Length 410;
Best Local Similarity 100.0%; Pred. No. 1.2e-218;
Matches 410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGVCDRAPDPLSPSEDQVLRPALGSSVALNCTAMVWSGPHCSLPVSQWIKDGLPIGIG 60
DB 1 MGVCDRAPDPLSPSEDQVLRPALGSSVALNCTAMVWSGPHCSLPVSQWIKDGLPIGIG 60
QY 61 HSLHEYSWVKANLSEVLVSSVGVNTSTEVYGAFTCSIQNTSFSFTLQRAGPTSHVA 120
DB 61 HSLHEYSWVKANLSEVLVSSVGVNTSTEVYGAFTCSIQNTSFSFTLQRAGPTSHVA 120
QY 121 AVIASLVLVLLALLAALLVYKCRNLVLLWQDAYGEVEINDGKLYDAYVYSDCPEDRK 180
DB 121 AVIASLVLVLLALLAALLVYKCRNLVLLWQDAYGEVEINDGKLYDAYVYSDCPEDRK 180
QY 181 VNFILKPOLERRRGYKFLDDBDRLPRAEBSADLVNLSRCRLIIVLSDAFLSRACSH 240
DB 181 VNFILKPOLERRRGYKFLDDBDRLPRAEBSADLVNLSRCRLIIVLSDAFLSRACSH 240
QY 241 SFREGLCRLLELTRRPIFTTFEGQRDPAPALRLRQHRHLVTLLMRGVTYPSDFW 300
DB 241 SFREGLCRLLELTRRPIFTTFEGQRDPAPALRLRQHRHLVTLLMRGVTYPSDFW 300
QY 301 KEVQALPRKVRYPVEGDPQTQDDKPMILIRGVPRGRALDSEVPDPEGDIGVRG 360
DB 301 KEVQALPRKVRYPVEGDPQTQDDKPMILIRGVPRGRALDSEVPDPEGDIGVRG 360
QY 361 PVGEPSPAPHTSGVSLGESRSSEVDVSDLSRNYSAKTDFTCLVSKDDM 410
DB 361 PVGEPSPAPHTSGVSLGESRSSEVDVSDLSRNYSAKTDFTCLVSKDDM 410

RESULT 11
ADP22970
ID ADP22970 standard; protein; 410 AA.

XX AC ADP22970;

DT 18-NOV-2004 (first entry)

DE PRO polypeptide SEQ ID NO:64.

XX PRO; antidiabetic; antidiabetic; antidiabetic; immunosuppressive;

KM osteopathic; antidiabetic; dermatological; antipruritic; antiallergic;
 KM antiaesthetic; hepatotropic; respiratory; gene therapy; immune system.
 XX
 OS unidentified.
 XX
 PN WO2004041170-A2.
 XX
 PD 21-MAY-2004.
 XX
 PF 30-OCT-2003; 2003WO-US034312.
 XX
 PR 01-NOV-2002; 2002US-0423394P.
 XX
 PA (GENTH) GENENTECH INC.
 PI Clark H, Schoenfeld J, Van Lookeren M, Williams PM, Wood WI;
 PI Wu TD;
 XX
 DR WPI; 2004-419628/39.
 DR N-PSDB; ADP22969.
 XX
 PT New PRO polypeptides and polynucleotides, useful for treating e.g.
 PT erythema, rheumatoid arthritis, diabetes mellitus, immune-mediated
 PT renal disease, or demyelinating diseases of the central or peripheral
 PT nervous system.
 XX
 PS Claim 7, SEQ ID NO 64, 2940pp; English.
 XX
 CC The invention relates to a novel isolated nucleic acid and the PRO
 CC polypeptide encoded by it. A protein of the invention has
 CC antiinflammatory, antipruritic, antipneumatic, immunosuppressive,
 CC osteopathic, antidiabetic, dermatological, antipruritic, antiallergic,
 CC antiaesthetic, hepatotropic, and respiratory activity. A polynucleotide
 CC of the invention may have a use in gene therapy. The PRO polypeptide, its
 CC agonist, antagonist, or antibody that specifically binds to the
 CC polypeptide is useful for treating an immune related disorder such as
 CC systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis,
 CC juvenile chronic arthritis, a spondyloarthropathy, systemic sclerosis, an
 CC idiopathic inflammatory myopathy, Sjogren's syndrome, systemic
 CC vasculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune
 CC thrombocytopenia, thyroiditis, diabetes mellitus, immune-mediated renal
 CC disease, a demyelinating disease of the central or peripheral nervous
 CC system, idiopathic demyelinating polynuropathy, Guillain-Barre syndrome,
 CC a chronic inflammatory demyelinating polynuropathy, a hepatobiliary
 CC disease, infectious or autoimmune chronic active hepatitis, primary
 CC biliary cirrhosis, granulomatous hepatitis, sclerosing cholangitis,
 CC inflammatory bowel disease, gluten-sensitive enteropathy, Whipple's
 CC disease, an autoimmune or immune-mediated skin disease, a bullous skin
 CC disease, erythema multiforme, contact dermatitis, psoriasis, an allergic
 CC disease, asthma, allergic rhinitis, atopic dermatitis, food
 CC hypersensitivity, urticaria, an immunologic disease of the lung,
 CC eosinophilic pneumonia, idiopathic pulmonary fibrosis, hypersensitivity
 CC pneumonitis, a transplantation associated disease, graft rejection or
 CC graft-versus-host disease. The present sequence represents a PRO protein
 CC of the invention.
 XX
 XX Sequence 410 AA;
 SQ

Query Match 100.0%; Score 2147; DB 8; Length 410;
 Best Local Similarity 100.0%; Pred. No. 1.2e-218;
 Matches 410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGVCDRAPPLPSSEDOVIRPALGSSVALNCTAMVSGHCSLPSVQMLKDGJPLGIG 60
 DB 1 MGVCDRAPPLPSSEDOVIRPALGSSVALNCTAMVSGHCSLPSVQMLKDGJPLGIG 60
 QY 61 HYSLSHXYSWKANSSEVLVGSVTVGVNTSTEVGAFCSTIONTSFSSFTLORAGPSSHVA 120
 DB 61 HYSLSHXYSWKANSSEVLVGSVTVGVNTSTEVGAFCSTIONTSFSSFTLORAGPSSHVA 120
 QY 121 AVLASLVLALLALLLVKCRNLVLLWYODAYGVEINDGKLYDAVYSQCPEDRK 180
 DB 121 AVLASLVLALLALLLVKCRNLVLLWYODAYGVEINDGKLYDAVYSQCPEDRK 180
 DB 121 AVLASLVLALLALLLVKCRNLVLLWYODAYGVEINDGKLYDAVYSQCPEDRK 180

QY 181 UNFLKPOLRRRGYKFLDDRDLLPRAEPSADLVNLSRCRLIYVLSAFLSRACSH 240
 DB 181 UNFLKPOLRRRGYKFLDDRDLLPRAEPSADLVNLSRCRLIYVLSAFLSRACSH 240
 QY 241 SFREGCLRLBELTRRPFITFEGORDDPAHRLALRQHRLVTLMLMRPGSVTPSSDFW 300
 DB 241 SFREGCLRLBELTRRPFITFEGORDDPAHRLALRQHRLVTLMLMRPGSVTPSSDFW 300
 QY 301 KEVQALPRKVRYPVEGDPOTQLQDDKDEMLILRGVPEGRALDSEVDDPEGDLGVRG 360
 DB 301 KEVQALPRKVRYPVEGDPOTQLQDDKDEMLILRGVPEGRALDSEVDDPEGDLGVRG 360
 QY 361 PVREGSPAPHTGVSIGESRSSYVDVSDLSGRYKARTDFYCLVSKDDM 410
 DB 361 PVREGSPAPHTGVSIGESRSSYVDVSDLSGRYKARTDFYCLVSKDDM 410

RESULT 12
 AAU86151
 ID AAU86151 standard; protein; 504 AA.
 XX
 AC AAU86151;
 XX
 DT 15-JUL-2002 (first entry)
 XX
 DE Human PRO342 polypeptide.
 XX
 KM Human; PRO; benign tumour; malignant tumour; lymphoid malignancy;
 KM leukaemia; neuronal disorder; stromal disorder; blastococcal disorder;
 KM inflammatory disorder; immune disorder; angiogenic disorder; cytostatic;
 KM neuroprotective.
 XX
 OS Homo sapiens.
 XX
 PN WO200153486-A1.
 XX
 PD 26-JUL-2001.
 XX
 PF 11-FEB-2000; 2000WO-US003565.
 XX
 PR 08-MAR-1999; 99WO-US005028.
 PR 11-MAR-1999; 99US-0123972P.
 PR 11-MAY-1999; 99US-0133459P.
 PR 02-JUN-1999; 99WO-US012252.
 PR 22-JUN-1999; 99US-0140650P.
 PR 22-JUN-1999; 99US-0140653P.
 PR 20-JUL-1999; 99US-0144758P.
 PR 26-JUL-1999; 99US-0145698P.
 PR 28-JUL-1999; 99US-0146222P.
 PR 17-AUG-1999; 99US-0149395P.
 PR 31-AUG-1999; 99US-0151689P.
 PR 01-SEP-1999; 99WO-US020111.
 PR 15-SEP-1999; 99WO-US021090.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 01-DEC-1999; 99WO-US028634.
 PR 05-JAN-2000; 2000WO-US000219.
 XX
 PA (GENTH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Goddard A, Godowski PJ, Gurney AL, Hillan MJ;
 PI Marsters SA, Pan J, Picti RM, Roy MA, Smith V, Stone DM;
 PI Watanabe CK, Wood WI;
 XX
 DR WPI; 2002-205567/26.
 DR N-PSDB; ABK40277.
 XX
 PT Thirty five nucleic acids encoding PRO polypeptides, useful for treating
 PT benign or malignant tumors, leukemias and lymphoid malignancies,
 PT inflammatory, angiogenic and immunologic disorders.
 XX
 PS Claim 61, Fig 48; 302pp; English.

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XX CC The present invention relates to the isolation of novel human PRO
CC polypeptides and the polynucleotide sequences encoding them. The PRO
CC polypeptides, agonists, antagonists or anti-PRO antibodies are useful for
CC treating benign or malignant tumours (e.g. renal, kidney, bladder,
CC breast, etc), leukemias and lymphoid malignancies, other disorders such
CC as neuronal, glial, astrocytal, hypothalamic, glandular, macrophagal,
CC stromal and blastocoele disorders, inflammatory, immune and angiogenic
CC disorders. The polynucleotide sequences are also useful in gene therapy.
CC AA086128-AA086162 represent the human PRO polypeptides of the invention
XX
SQ Sequence 504 AA;

Query Match      87.4%; Score 1876; DB 5; Length 504;
Best Local Similarity 96.8%; Pred. No. 1,1e-189;
Matches 360; Conservative 2; Mismatches 2; Indels 8; Gaps 1;

QY 1 MPGVCDRAPDPLSPSEDOVLRLPALGSSVALNCTAMVVGPHCSLPVQWLKDLPLGIGG 60
   |||||
Db 1 MPGVCDRAPDPLSPSEDOVLRLPALGSSVALNCTAMVVGPHCSLPVQWLKDLPLGIGG 60
   |||||

QY 61 HYSLHEYSWKANLSEVLVSSVGVNVTSTEVYGAFTCSIQNISFSFTLQRAGPTSHVA 120
   |||||
Db 61 HYSLHEYSWKANLSEVLVSSVGVNVTSTEVYGAFTCSIQNISFSFTLQRAGPTSHVA 120
   |||||

QY 121 AVLASLVLVLLALLALLVKCRNLVNLWQDAYGVEVINDGKLYDAYVYSDCPEDRKF 180
   |||||
Db 121 AVLASLVLVLLALLALLVKCRNLVNLWQDAYGVEVINDGKLYDAYVYSDCPEDRKF 180
   |||||

QY 181 VNFILKQLEERRRGYKFLDDBDLPRAPESADLVNLSRCRLIIVLSDAFLSRAMCSH 240
   |||||
Db 181 VNFILKQLEERRRGYKFLDDBDLPRAPESADLVNLSRCRLIIVLSDAFLSRAMCSH 240
   |||||

QY 241 SFREGICRLLELTRRPIFTFEGQRDPAPRALRLRGHNLVTLMLRGSTVTPSSDFW 300
   |||||
Db 241 SFREGICRLLELTRRPIFTFEGQRDPAPRALRLRGHNLVTLMLRGSTVTPSSDFW 300
   |||||

QY 301 KEVQALPRKVRPRVPGDPOTQLODDKPMILIRGVPRGRALDSEVDPDPEDGLGVNG 360
   |||||
Db 301 KEVQALPRKVRPRVPGDPOTQLODDKPMILIRGVPRGRALDSEVDPDPEDGLGM-- 358
   |||||

QY 361 PVFGEPSAPPHT 372
   |||
Db 359 -----PAQPHS 364
   |||

RESULT 13
ADJ37329
ID ADJ37329 standard; protein; 504 AA.
XX
AC ADJ37329;
XX
DT 22-APR-2004 (first entry)
XX
DE Human tumour therapy associated PRO342.
XX
KM cytostatic; gene therapy; PRO: PRO197; PRO207; PRO226; PRO232; PRO243;
KM PRO266; PRO269; PRO274; PRO304; PRO339; PRO1558; PRO779; PRO1185;
KM PRO1245; PRO1759; PRO5775; PRO7133; PRO7168; PRO5725; PRO202; PRO206;
KM PRO264; PRO313; PRO342; PRO542; PRO773; PRO861; PRO1216; PRO1686;
KM PRO1800; PRO3562; PRO3850; PRO539; PRO4316; PRO4980; cancer; tumour;
KM neoplastic cell growth; neoplastic cell proliferation; carcinoma;
KM lymphoma; blastoma; sarcoma; leukaemia.
XX
OS Homo sapiens.
XX
PN US2003211096-A1.
XX
PD 13-NOV-2003.
XX
PF 02-AUG-2002; 2002US-00211858.
XX
PR 31-AUG-1999; 99US-0151689P.

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PR 11-FEB-2000; 2000WO-US003565.
PR 09-AUG-2001; 2001US-00927796.
XX
PA (GENTH ) GENENTECH INC.
XX
PI Ashkenazi AJ, Goddard A, Godowski PJ, Gurney AL, Hillan KJ;
PI Masters SA, Pan Y, Plichi RM, Roy MA, Smith V, Stone DM;
PI Matanabe CK, Wood WJ;
XX
DR WPI, 2003-901564/82.
DR N-PSDB; ADJ37328.
XX
XX New isolated PRO polypeptides, useful as targets for the diagnosis,
PT prevention and treatment of cancers, e.g. lymphoma, blastoma, sarcoma or
PT leukemia, and as predictors of the prognosis of tumor treatment.
XX
PS Claim 61; SEQ ID NO 48; 307pp; English.
XX
XX

```

The invention describes an isolated PRO polypeptide. The PRO polypeptide: CC has at least 80% amino acid sequence identity to: (1) any one of 35 fully CC defined sequences of 104-954 amino acids (designated PI-P35) given in the CC specification, with or without its associated signal peptide; (2) an CC extracellular domain of any one of the polypeptides of PI-P35, with or CC without its associated signal peptide; or (3) an amino acid sequence CC encoded by the full-length coding sequence of the DNA deposited under CC ATCC accession number 209284, 209358, 203376, 209250, 209308, 209379, CC 209397, 209786, 209482, 209490, 203312, 55820, 203096, 203455, CC PTA-255, PTA-618, PTA-545, PTA-256, 203538, 203661, 203835 or PTA-43; or CC scores at least 80% positives when compared to any one of the sequences CC of PI-P35. Specifically claimed are 35 PRO polypeptides, i.e. PRO197, PRO339, CC PRO207, PRO226, PRO243, PRO256, PRO269, PRO274, PRO304, PRO339, CC PRO1558, PRO779, PRO1185, PRO1245, PRO1759, PRO5775, PRO7133, PRO7168, CC PRO5725, PRO202, PRO206, PRO264, PRO313, PRO342, PRO542, PRO773, PRO861, CC PRO1216, PRO1686, PRO1800, PRO3562, PRO3850, PRO539, PRO4316 and PRO4980 CC polypeptides. The PRO polypeptides are useful as targets for the CC diagnosis, prevention and treatment of cancers, and as predictors of the CC prognosis of tumour treatment. The nucleic acid molecules, antibodies and CC antagonists are useful for diagnosing and treating neoplastic cell growth CC and proliferation, e.g. carcinoma, lymphoma, blastoma, sarcoma or CC leukaemia. The antibodies may be used in screening assays for drug CC candidates. This is the amino acid sequence of a PRO protein useful in CC the treatment of cancers.

Sequence 504 AA;

```

Query Match      87.4%; Score 1876; DB 7; Length 504;
Best Local Similarity 96.8%; Pred. No. 1,1e-189;
Matches 360; Conservative 2; Mismatches 2; Indels 8; Gaps 1;

QY 1 MPGVCDRAPDPLSPSEDOVLRLPALGSSVALNCTAMVVGPHCSLPVQWLKDLPLGIGG 60
   |||||
Db 1 MPGVCDRAPDPLSPSEDOVLRLPALGSSVALNCTAMVVGPHCSLPVQWLKDLPLGIGG 60
   |||||

QY 61 HYSLHEYSWKANLSEVLVSSVGVNVTSTEVYGAFTCSIQNISFSFTLQRAGPTSHVA 120
   |||||
Db 61 HYSLHEYSWKANLSEVLVSSVGVNVTSTEVYGAFTCSIQNISFSFTLQRAGPTSHVA 120
   |||||

QY 121 AVLASLVLVLLALLALLVKCRNLVNLWQDAYGVEVINDGKLYDAYVYSDCPEDRKF 180
   |||||
Db 121 AVLASLVLVLLALLALLVKCRNLVNLWQDAYGVEVINDGKLYDAYVYSDCPEDRKF 180
   |||||

QY 181 VNFILKQLEERRRGYKFLDDBDLPRAPESADLVNLSRCRLIIVLSDAFLSRAMCSH 240
   |||||
Db 181 VNFILKQLEERRRGYKFLDDBDLPRAPESADLVNLSRCRLIIVLSDAFLSRAMCSH 240
   |||||

QY 241 SFREGICRLLELTRRPIFTFEGQRDPAPRALRLRGHNLVTLMLRGSTVTPSSDFW 300
   |||||
Db 241 SFREGICRLLELTRRPIFTFEGQRDPAPRALRLRGHNLVTLMLRGSTVTPSSDFW 300
   |||||

QY 301 KEVQALPRKVRPRVPGDPOTQLODDKPMILIRGVPRGRALDSEVDPDPEDGLGVNG 360
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Db 301 KEVQALPRKVRPRVPGDPOTQLODDKPMILIRGVPRGRALDSEVDPDPEDGLGM-- 358
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Qy 361 PVFGEPSAPPH 372
Db 359 -----PAQPHS 364

RESULT 14
ADG68253
ID ADG68253 standard; protein: 504 AA.
XX
AC ADG68253;
XX
DT 11-MAR-2004 (first entry)
XX
DE Human PRO polypeptide #24.
XX
KM neoplastic tumour; lung; colon; breast; prostate; rectal; cervical;
XX liver; gene therapy; Human.
XX
OS Homo sapiens.
XX
PN US2003170228-A1.
XX
PD 11-SEP-2003.
XX
PF 02-AUG-2002; 2002US-00210951.
XX
PR 31-AUG-1999; 99US-0151689P.
PR 11-FEB-2000; 2000WO-US003565.
PR 09-AUG-2001; 2001US-00927796.
XX
XX (GETH ) GENENTECH INC.
XX
PI Ashkenazi AJ, Goddard A, Godowski PJ, Gurney AL, Hillan KJ,
PI Marsters SA, Pan J, Plichi RM, Roy MA, Smith V, Stone DM,
PI Watanabe CK, Wood WJ;
XX
DR WPI; 2004-020650/02.
XX
DR N-PSDB; ADG68252.
XX
PT New isolated antibodies binding PRO polypeptides, useful for diagnosing,
PT prognosticating and/or treating neoplastic tumors, such as lung, colon,
PT breast, prostate, rectal, cervical and liver tumors.
XX
XX
PS Claim 61; SEQ ID NO 48; 308bp; English.
XX
XX
CC The invention relates to an isolated antibody that binds to a PRO
CC polypeptide. The methods and compositions of the present invention are
CC useful for diagnosing, prognosticating and/or treating neoplastic
CC tumours, such as lung, colon, breast, prostate, rectal, cervical and
CC liver tumours. The PRO polypeptides are also useful as molecular weight
CC markers, or for chromosome identification. The PRO genes are useful as
CC hybridisation probes, or for screening libraries of Human cDNA, genomic
CC DNA or mRNA. The PRO genes may also be used in gene therapy, particularly
CC for replacing a defective gene. The present sequence is used in the
CC exemplification of the invention.
XX
XX
SQ Sequence 504 AA;

Query Match 87.4%; Score 1876; DB 8; Length 504;
Best Local Similarity 96.8%; Pred. No. 1,1e-189;
Matches 360; Conservative 2; Mismatches 2; Indels 8; Gaps 1;
```

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Qy 181 VNFILKQLERRRGYKFLDDRDLLPRAEPSADILVLSRCRLIVVLSNAFLSRACSH 240
Db 181 VNFILKQLERRRGYKFLDDRDLLPRAEPSADILVLSRCRLIVVLSNAFLSRACSH 240

Qy 241 SPREGLCRLLELRFPITFTTEGGRDPAPALRLRLQHRLVTLMLMRPGSVPSGDFW 300
Db 241 SPREGLCRLLELRFPITFTTEGGRDPAPALRLRLQHRLVTLMLMRPGSVPSGDFW 300

Qy 301 KEVQALPRKVRYPVEGDPOTQLQDDKDPMLILGRVPEGRALDSEVDDPPEGDLGVRG 360
Db 301 KEVQALPRKVRYPVEGDPOTQLQDDKDPMLILGRVPEGRALDSEVDDPPEGDLGVRG 360

Qy 361 PVFGEPSAPPH 372
Db 359 -----PAQPHS 364

RESULT 15
AAU17408
ID AAU17408 standard; protein: 407 AA.
XX
XX
AC AAU17408;
XX
DT 07-NOV-2001 (first entry)
XX
DE Novel signal transduction pathway protein, Seq ID 973.
XX
XX
KM Neuroprotective; cytostatic; dermatological; immunosuppressive; tumour;
KM antiinflammatory; anti-HIV; antibacterial; antiinflammatory; cancer;
KM immune system disorder; rheumatoid arthritis; inflammatory condition;
KM organ transplant rejection; infection; hepatitis C; blood disorder;
KM sickle cell anemia; hyperproliferative disorder; Gaucher's disease;
KM neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;
KM chromosomal abnormality; Down syndrome; ischaemia; renal disorder;
KM cardiovascular; respiratory; wound healing; endocrine; Addison's disease;
KM reproductive system; gastrointestinal; liver disorder; AIDS;
KM acquired immune deficiency syndrome.
XX
XX
OS Homo sapiens.
XX
PN WC200154733-A1.
XX
PD 02-AUG-2001.
XX
XX
PF 17-JAN-2001; 2001WO-US001312.
XX
PR 31-JAN-2000; 2000US-0179065P.
PR 04-FEB-2000; 2000US-0180628P.
PR 24-FEB-2000; 2000US-0184664P.
PR 02-MAR-2000; 2000US-0186350P.
PR 16-MAR-2000; 2000US-0189874P.
PR 17-MAR-2000; 2000US-0190076P.
PR 18-APR-2000; 2000US-0198123P.
PR 19-MAY-2000; 2000US-0205515P.
PR 07-JUN-2000; 2000US-0209467P.
PR 28-JUN-2000; 2000US-0214886P.
PR 30-JUN-2000; 2000US-0215135P.
PR 07-JUL-2000; 2000US-0216647P.
PR 07-JUL-2000; 2000US-0216880P.
PR 11-JUL-2000; 2000US-0217487P.
PR 11-JUL-2000; 2000US-0217496P.
PR 14-JUL-2000; 2000US-0218290P.
PR 26-JUL-2000; 2000US-0220963P.
PR 26-JUL-2000; 2000US-0220964P.
PR 14-AUG-2000; 2000US-0224518P.
PR 14-AUG-2000; 2000US-0224519P.
PR 14-AUG-2000; 2000US-0225213P.
PR 14-AUG-2000; 2000US-0225214P.
PR 14-AUG-2000; 2000US-0225266P.
PR 14-AUG-2000; 2000US-0225267P.
PR 14-AUG-2000; 2000US-0225268P.
PR 14-AUG-2000; 2000US-0225270P.
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PR 14-AUG-2000; 2000US-0225447P.
 PR 14-AUG-2000; 2000US-0225757P.
 PR 14-AUG-2000; 2000US-0225758P.
 PR 14-AUG-2000; 2000US-0225759P.
 PR 18-AUG-2000; 2000US-0226279P.
 PR 22-AUG-2000; 2000US-0226681P.
 PR 22-AUG-2000; 2000US-0226688P.
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 PR 23-AUG-2000; 2000US-0227009P.
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 PR 06-SEP-2000; 2000US-0230437P.
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 PR 12-SEP-2000; 2000US-0231968P.
 PR 14-SEP-2000; 2000US-0232397P.
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 PR 02-OCT-2000; 2000US-0236802P.
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 PR 17-NOV-2000; 2000US-0249297P.
 PR 17-NOV-2000; 2000US-0249299P.
 PR 17-NOV-2000; 2000US-0249300P.
 PR 01-DEC-2000; 2000US-0250160P.
 PR 01-DEC-2000; 2000US-0250391P.
 PR 05-DEC-2000; 2000US-0251030P.
 PR 05-DEC-2000; 2000US-0251988P.
 PR 05-DEC-2000; 2000US-0256719P.
 PR 06-DEC-2000; 2000US-0251479P.
 PR 08-DEC-2000; 2000US-0251856P.
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 PR 08-DEC-2000; 2000US-0251869P.
 PR 08-DEC-2000; 2000US-0251989P.
 PR 08-DEC-2000; 2000US-0251990P.
 PR 11-DEC-2000; 2000US-0254097P.
 PR 05-JAN-2001; 2001US-0259678P.
 (HUMA-) HUMAN GENOME SCI INC.
 PA
 PI Rosen CA, Barash SC, Ruben SM;
 XX WPI; 2001-465460/50.
 XX DR N-PSDB; AAS27325.
 XX PT Novel polypeptides useful for diagnosing, treating, preventing and/or
 PT prognosing disorders related to the proteins, including cancers, immune
 PT disorders and neuronal disorders.
 XX
 XX Claim 1; SEQ ID NO 973; 880bp; English.
 XX
 CC The invention relates to novel isolated polypeptides (I), and
 CC polynucleotides (II). (I), (II) and the antibody to (I) are useful for
 CC diagnosing, preventing and treating diseases including immune system
 CC disorders (e.g. congenital and acquired immunodeficiencies, autoimmune
 CC disorders (e.g. rheumatoid arthritis), inflammatory conditions, organ
 CC transplant rejections and graft versus host disease, infectious diseases
 CC (e.g. hepatitis C), bleeding disorders, haemoglobin abnormalities and
 CC other blood-related disorders (sickle cell anaemia), myeloproliferative
 CC disorders, primary haematopoietic disorders, hyperproliferative disorders
 CC (e.g. Gaucher's disease and cancer), neurodegenerative disorders (e.g.
 CC Alzheimer's disease, Parkinson's disease), chromosomal abnormalities
 CC (Down syndrome), ischaemic injury (e.g. stroke), renal disorders (e.g.
 CC glomerulonephritis), cardiovascular disorders (e.g. arrhythmia),
 CC respiratory disorders, dermatological disorders, in wound healing,
 CC epithelial cell proliferation, endocrine disorders (e.g. Addison's
 CC disease), reproductive system disorders, gastrointestinal disorders
 CC (inflammatory disorders), liver disorders (cirrhosis), as stimulators of
 CC B-cell responsiveness to pathogens, activators of T-cells, to induce
 CC higher affinity antibodies, and as a means to induce tumour proliferation
 CC in pathologies e.g. acquired immune deficiency syndrome (AIDS). AAU17059-
 CC AAU17683 represent novel signal transduction pathway protein, amino acid
 CC sequences of the invention

XX

Query Match 82.0%; Score 1761; DB 4; Length 407;
 Best Local Similarity 100.0%; Pred. No. 1.3e-177;
 Matches 341; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	70	VKANLSEVLVSVYGVNVTSTEVYGAFTCSIQNI	SPSSFTLQRA	GPTSHVA	AVLASL	LYL	129
Db	67	VKANLSEVLVSVYGVNVTSTEVYGAFTCSIQNI	SPSSFTLQRA	GPTSHVA	AVLASL	LYL	126
Qy	130	LALLLALLVYKCRNLNLLWYQDAYGEYEINDG	KLYDAVYS	SDCPEDR	KFNFI	LKPQL	189
Db	127	LALLLALLVYKCRNLNLLWYQDAYGEYEINDG	KLYDAVYS	SDCPEDR	KFNFI	LKPQL	186
Qy	190	ERRRGYKLFDDRDLLPRAEPSADLLVNL	SRCRLLIV	LSDAFL	SRAMCSH	SFREGLCRL	249
Db	187	ERRRGYKLFDDRDLLPRAEPSADLLVNL	SRCRLLIV	LSDAFL	SRAMCSH	SFREGLCRL	246
Qy	250	LELTRRPIPTTFEGORRDPAPALRLRQHR	LVTL	LMRPGSV	TPSSDFWKE	VQALPR	309
Db	247	LELTRRPIPTTFEGORRDPAPALRLRQHR	LVTL	LMRPGSV	TPSSDFWKE	VQALPR	306
Qy	310	KVRYRPVEGDPQTQLQDDKDPMLILRGR	VEGRALDSE	VPDPPEGDL	GVRGVP	FGPSAP	369
Db	307	KVRYRPVEGDPQTQLQDDKDPMLILRGR	VEGRALDSE	VPDPPEGDL	GVRGVP	FGPSAP	366
Qy	370	PHTSGVSLGESRSSEVDVSDIGSRNYS	ARTDFYC	LVSKDM			410
Db	367	PHTSGVSLGESRSSEVDVSDIGSRNYS	ARTDFYC	LVSKDM			407

Search completed: August 1, 2005, 13:53:00
 Job time : 168 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 1, 2005, 13:34:31 ; Search time 41 Seconds

(without alignments)
962.168 Million cell updates/sec

Title: US-09-598-443-2

Perfect score: 2147

Sequence: 1 MPGVCDRAPPLSPSEDDVL.....GSRVYSARTDEYCLVSKDM 410

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: PIR.79:*
2: p1r1:*
3: p1r2:*
4: p1r3:*
5: p1r4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	215.5	10.0	570	2 A57535	interleukin 1 recep
2	209.5	9.8	569	2 A36187	interleukin-1 rece
3	204	9.5	562	2 G02426	interleukin-1 rece
4	190.5	8.9	576	2 A32604	interleukin-1 rece
5	189.5	8.8	567	2 G29498	lymphocyte antigen
6	184	8.6	555	2 J01526	interleukin-1 rece
7	176	8.2	1097	2 A29943	Toll protein precu
8	168.5	7.8	590	2 I56526	interleukin 1 rece
9	163	7.6	247	2 S42633	Pit-1M protein - r
10	144.5	6.7	1385	2 T13887	tlr protein - fru
11	139.5	6.5	1389	2 T13852	gene wheeler prote
12	128.5	6.0	168	2 I51903	type I interleukin
13	123	5.7	799	2 S18209	fibroblast growth
14	115	5.4	243	2 S11226	MYD88 protein - mo
15	114.5	5.3	786	2 T08664	Toll protein-like
16	113.5	5.3	1323	2 PNO568	connectin 3B - chi
17	111	5.2	26926	1 I38344	ctlin, cardiac mus
18	109.5	5.1	822	2 S19947	fibroblast growth
19	109.5	5.1	822	2 B49141	fibroblast growth
20	103	4.8	650	1 J01450	fibroblast growth
21	102.5	4.8	818	2 J04058	fibroblast growth
22	100.5	4.7	629	2 E70589	protoporphyrin IX
23	99	4.6	379	2 G96754	hypothetical prote
24	98	4.6	363	2 B96754	similar to part of
25	97	4.5	176	2 B96754	similar to downy m
26	97	4.5	829	2 J04583	fibroblast growth
27	96.5	4.5	380	2 C96754	similar to part of
28	96.5	4.5	802	1 TVHUP4	fibroblast growth
29	95	4.4	815	2 T41490	hypothetical prote

30	94.5	4.4	411	2 T35102	probable transmem
31	94.5	4.4	1024	2 G71434	probable limonene
32	94	4.4	365	2 J0780	coxsackie- and ade
33	94	4.4	1896	2 T08851	Down syndrome cell
34	93.5	4.4	275	2 D96754	Similar to part of
35	93.5	4.4	1179	2 T04584	TWV resistance pro
36	93.5	4.4	1344	2 T14316	rig-1 protein - mo
37	93.5	4.4	7962	2 I38346	elastic ctlin - hu
38	93	4.3	764	2 A49448	irregular chiasm C
39	92.5	4.3	371	2 F96754	Similar to ML27 [1
40	92.5	4.3	2783	2 T34416	hypothetical prote
41	92	4.3	871	1 I48696	protein-tyrosine k
42	92	4.3	881	1 I48697	protein-tyrosine k
43	92	4.3	1694	2 S50065	sialoadhesin - mou
44	92	4.3	2149	2 C96695	ribulose biphosph
45	91.5	4.3	357	1 TVHUP2	transforming prote

ALIGNMENTS

RESULT 1

A57535

interleukin 1 receptor accessory protein precursor - mouse

C:Species: Mus musculus (house mouse)

C>Date: 08-Feb-1996 #sequence_revision 08-Feb-1996 #text_change 09-Jul-2004

C:Accession: A57535

R:Greenfeder, S.A.; Nunes, P.; Kwee, L.; Labow, M.; Chizzonite, R.A.; Ju, G.

J. Biol. Chem. 270, 13757-13765, 1995

A:Title: Molecular cloning and characterization o a second subunit of the interleukin 1

A:Reference number: A57535, MUID:55293970; PMID:7775431

A:Accession: A57535

A:Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-570 <GRB>

A:Cross-references: UNIPROT:Q61730; GB:X65999; NID:g887520; PIDN:CA59991.1; PID:g88752

C:Superfamily: interleukin-1 receptor type I

C:Keywords: transmembrane protein

Query Match 10.0%; Score 215.5; DB 2; Length 570;
Best Local Similarity 25.6%; Pred. No. 4.9e-10;
Matches 85; Conservative 61; Mismatches 153; Indels 33; Gaps 10;

QY	9	PDFLSPSEDDYLRPALSSVALNCTAW--VSGPHCSLPVQWLKDG-LPLGIGHSYLA 65	
DB	243	PQIYSPMDRVYKEKEPEBELVIPCXYFSFIMSH--NEWMTIDKKEDVDVTDITIN 299	
QY	66	EYSWVKANLSEVLVSSVLGVNVTSTVYGAFQTSION----ISFSFTLQAGP---TSH 118	
DB	300	ESVSYSTEDERTQIISIKKVTPEDIRNVYCHARTKGEAEQAARVKKVLPPTYVE 359	
QY	119	VAAVLASLIVLALLLALILVVKCRNLVNLVMDYDAVEE-INDGKLYDAVSYSDPED 177	
DB	360	LACGFGATVFLVVLVLI--VYHYVWLEWVLFYRAHFTDITIDGKYDIYVSARVBE 417	
QY	178	RKPVNFIKPOLERRRGYKFLDDRDILPPAESADILVLSRCRLIIVLSAFTSRW 237	
DB	418	EEFVLTIRGLVLENEFGYKLCIFEDRDLPGGIYVDETLSFIQKSRRLIVLSPPVY--- 473	
QY	238	CHSFRGLCRILELTRPIFIITFEG-----QRPAIPALRLRQHNLVTLMLR- 289	
DB	474	----LQGTALIELKAGLENMMSRGINIVILVQYKAVKQMKVKELRARTVTLVIMKG 528	
QY	290	PGSVTPSSDFWKEVQLALPRKRVYRPVPGDPQ 321	
DB	529	EKSKYPPGRFMKQLQVAMPYKSPRMSNDKQ 560	

RESULT 2

A36187

interleukin-1 receptor type I precursor - human

C:Species: Homo sapiens (man)

C>Date: 14-Dec-1990 #sequence_revision 14-Dec-1990 #text_change 09-Jul-2004

RESULT 5

829498

Lymphocyte antigen Ly84 precursor - mouse

N/Alternate names: 38.5K T1 glycoprotein; ST2L protein

C/Species: Mus musculus (house mouse)

C/Date: 13-Jun-1995 #sequence_revision 13-Jun-1995 #text_change 09-Jul-2004

C/Accession: S29498; A33541; S17657; S07054

R/Yanagisawa, K.; Takagi, T.; Teikamoto, T.; Tetsuka, T.; Tomioka, S.

FEBS Lett. 318, 83-87, 1993

A/Title: Presence of a novel primary response gene ST2L, encoding a product highly simil

A/Reference number: S29498; MUID:93170492; PMID:7916701

A/Accession: S29498

A/Status: preliminary

A/Molecule type: mRNA

A/Residues: 1-567 <YAN>

A/Accession: UNIPROT:P14719; EMBL:D13695; NID:G286100; PIDN:BAA02854.1; PID:G2861

R/Klemenz, R.; Hoffmann, S.; Werenkiold, A.K.

Proc. Natl. Acad. Sci. U.S.A. 86, 5708-5712, 1989

A/Title: Serum- and oncoprotein-mediated induction of a gene with sequence similarity to

A/Reference number: A33541; MUID:89345536; PMID:2527364

A/Accession: A33541

A/Molecule type: mRNA

A/Residues: 1-191, 'V', 193-328, 'SKECPSHIA' <KLE>

A/Cross-references: GB:M24843; NID:G201103; PIDN:AAA40160.1; PID:G201104

R/Tomioka, S.I.; Jenkins, N.A.; Gilbert, D.J.; Copeland, N.G.; Tetsuka, T.

Biochim. Biophys. Acta 1090, 1-8, 1991

A/Title: Molecular cloning of the murine ST2 gene. Characterization and chromosomal map

A/Reference number: S17657; MUID:91355215; PMID:1832015

A/Accession: S17657

A/Status: translation not shown

A/Molecule type: DNA

A/Residues: 1-191, 'V', 193-328, 'SKECPSHIA' <TOM>

A/Cross-references: EMBL:X60184; NID:G54200; PIDN:CAA42742.1; PID:G54201

R/Tomioka, S.I.

FEBS Lett. 258, 301-304, 1989

A/Title: A putative protein of a growth specific cDNA from BALB/c-3T3 cells is highly si

A/Reference number: S07054; MUID:90922495; PMID:2532153

A/Accession: S07054

A/Molecule type: mRNA

A/Residues: 1-328, 'SKECPSHIA' <TO2>

A/Cross-references: EMBL:X07519; NID:G55517; PIDN:CAA68812.1; PID:G55518

A/Note: It is uncertain whether Met-1, Met-7 or Met-19 is the initiator

C/Genetics:

A/Gene: ST2

A/Map position: 1

A/Intons: 27/1; 97/2; 155/3; 210/1; 233/1; 280/2

C/Superfamily: Interleukin-1 receptor type I

C/Keywords: glycoprotein

F/1-26/Domain: signal sequence #status predicted <SIG>

F/1-27-337/Product: ST2 protein #status predicted <MAT>

F/50,101,107,146,176,194,225,259,278/Binding site: carbohydrate (Aan) (covalent) #status

Query Match

Best Local Similarity 8.8%; Score 189.5; DB 2; Length 567;

Matches 82; Conservative 59; Mismatches 153; Indels 37; Gaps 14;

Query 9 PDLSPSEDOVLPRLALGSSVALNCTAVVSGPHCSLPVQMLKGLPLGIGHYSLHEYS 68

DB 217 PVTINFPYNTMEVEIGKPSINCSACFGKSH-FLADVLMQINKYVNGFGARIOEE 275

Query 69 WVKANLSEVL--VSVLGV--NVTSTEV--YGAFTCSIONISFSSFTLQAGPTSH--VA 120

DB 276 GRNESSNDMDCLTSVLRITGVTEKDSLSEYDCALALHGMINTTRLRKOPIDHSIX 335

Query 121 AVLASLLVLLALLAALLLYKC-RLNVLTLVYQDAYGVEI--NGKUYDAYVSY----- 171

DB 336 YIYAGSGLLMFNLVNLVTLKVFWEIALFWRIDVTPYKTRNDGKLDADVITPRVFRGS 395

Query 172 -SDCPEDRKFNFLKLPQLEERRRGYKFLDPRDLPPAFSADLVNLSCRRLLIVLSD 230

DB 396 AAGTHVEYEVVHTLPRVLENKGGYKLCIGRDLPEODAAVYVSSISGRQVFLAR 455

Query

231

AFLSRAMCSHREGL-CLLELTRRPIPTFGQRDPAPRALR-----LRQH-RHLYT 284

DB

456 HMMKREFAVEQRIALHSALIONNSKVILEM-----PLGEASRLQVGLDLSQLHLVK 510

Query

285

L---LLMRPGSYTP---SSDFWKEVOLALP 308

DB

511 IQGTIKREDVADKQSLSSKFKHRYQMP 541

RESULT 6

J01526

Interleukin-1 receptor 1 precursor - chicken

C/Species: Gallus gallus (chicken)

C/Date: 17-Aug-1992 #sequence_revision 17-Aug-1992 #text_change 09-Jul-2004

C/Accession: J01526

R/Guida, S.; Heguy, A.; Melli, M.

Gene 111, 239-243, 1992

A/Title: The chicken IL-1 receptor: differential evolution of the cytoplasmic and extra

A/Reference number: J01526; MUID:92175529; PMID:1531799

A/Accession: J01526

A/Molecule type: mRNA

A/Residues: 1-555 <GUI>

A/Cross-references: UNIPROT:Q90874; GB:M81846; NID:G212206; PIDN:AAA48924.1; PID:G21220

A/Experimental source: embryo

C/Superfamily: Interleukin-1 receptor type I

C/Keywords: cytokine receptor; transmembrane protein

F/1-19/Domain: signal sequence #status predicted <SIG>

F/20-555/Product: interleukin-1 receptor 1 #status predicted <INT>

F/339-359/Domain: transmembrane #status predicted <TRA>

Query Match

Best Local Similarity 8.8%; Score 184; DB 2; Length 555;

Matches 90; Conservative 65; Mismatches 101; Indels 104; Gaps 21;

Query 9 PDLSPSEDOVLPRLALGSSVALNCTAVVSGPHCSLP-----SVQMLKD 52

DB 230 PEITVFN--NNTTVEIGSHVMECN--VSGVYGLPQVQVDEVDVDSFSTYREQYEE 286

Query 53 GLPLGIGGHYSLHEYSWVKANLSEVLVSSVGVNVTSTEVYGAFTCSI--ONISFSSFTLQ 111

DB 287 GMPHGIA-----VSGTKNISEVTLKDY-----AYKFFCHRTYDSQETSY-IK 329

Query 112 RAQPTSHVAALV---ASLLVLLALLAALLLYKCRNLNLTQDAYGEV---EINDGKL 164

DB 330 LEHPVONIRGYLLGGGSLIFLLFLTL--IVYKIFKIDIVLWYRSSCHPLGKKVSDGKI 387

Query 165 YDAYVSGSDCPEDRK-----FVNPLKLPQLEERRRGYKFLDPRDLPPAFSADLV- 215

DB 388 YDAYVLY--FKNRSECLYSSDIFALKILPVELERQGINLFTFRNDL-AGEAVIDVDT 443

Query 216 VNLSCRRLLVNV-----SDAFLSRAMCSHSPREGL-CLLELTR-----R 255

DB 444 EKIHQSRVILILVPEVSCGLEDASEKRL--AVYNALLQDQIKIILIELKIEDVAM 501

Query 256 PIITTEGGRRDPAPRALRL-----RQRHVLTLILMPGVSYPSSDFWKEVOLALPRK 310

DB 502 PESIKYVKOK---YGAIRWTGDFSEKSH-----SASTRFWKVRYHMPSR 543

RESULT 7

A29943

Toll protein precursor - fruit fly (Drosophila melanogaster)

C/Species: Drosophila melanogaster

C/Date: 19-Nov-1988 #sequence_revision 19-Nov-1988 #text_change 09-Jul-2004

C/Accession: A29943

R/Hashimoto, C.; Hudson, K.L.; Anderson, K.V.

Cell 52, 269-279, 1988

A/Title: The Toll gene of Drosophila, required for dorsal-ventral embryonic polarity, ai

A/Reference number: A29943; MUID:8815760; PMID:2449285

A/Accession: A29943

A/Molecule type: DNA

A/Residues: 1-1097 <HAS>

A:Cross-references: UNIPROT: P08953, GB: M19969, GB: J02682, NID: G156640, P1DN: AAA8941.1
C:Gene: FLYBase: T1
C:Gene: FLYBase: FBgn0003717
C:KeyWords: Transmembrane protein
F1-17/Domain: signal sequence #status predicted <SIG-
F18-1097/Product: Toll protein #status predicted <Mat>

[illegible]

RESULT 8

interleukin-1 receptor type I - rat
156526
C:Species: Rattus norvegicus (Norway rat)
C>Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 29-Sep-1999
C:Accession: I56526
R:Hart, R.P.; Liu, C.; Shadlack, A.M.; McCormick, R.J.; Jonakait, G.M.
J. Neuroimmunol. 44, 49-56, 1993
A:Title: An mRNA homologous to interleukin-1 receptor type I is expressed in cultured rat
A:Reference number: I56526; MIMD:93266794; PMID:7684399
A:Accession: I56526
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-590 <RSS>
A:Cross-references: GB:I95578; NID:G451305; PTDN:AAA16196.1; PID:G451306
C:Superfamily: Interleukin-1 receptor type I
C:Keywords: cytokine receptor

Query Match	7.8%	Score 168.5	DB 2	Length 590
Best Local Similarity	24.8%	Pred. No. 4.5e-06		
Matches	88	Conservative	56	Mismatches 128; Indels 83; Gaps 21
Qy	6	DEAPDPLSPSEDQVLRPALGSSVALNCTAMVNGSPHCSPSYQWMLKDGFLIGIGHYSLLH	65	
Db	241	DR-PVIMSP-RNRETBADSGSTIOLICN---VTGQFTDI--VYMKWNGSEIMDDPIIAE	293	
Qy	66	EKSWK---ANLSEVLVSGLVNTSTEVYG-AFPCISQNTSFSSFTLQRAKGPISHVA	121	
Db	294	DVQFLHBPAAKKKTYLTIT-LNVSEVKSQFYRPFICFYKNHILE-----TAHWRL	344	
Qy	122	VLA-----SLVLALLALLAALLYYKC-----RLNVLLWYDAYGEV---EINDSKLYDA	167	
Db	345	VYPVDFKNYLLGGFAIFATAVFCACIKYKVKVIDVLMYRSCSDFLPRKASDGRITDA	404	
Qy	168	YYSYSDCEPDRKFEV---NFILK--PQ-LERRRGYKFLUDDRLPRAEBSADLVNLSRC	221	
Db	405	YLYPKTYEGSFAYLIDTFFVKLLPEVLBEGQGYKFLIGRDRDYGDIEITVENNKKRS	464	
Qy	222	RLILVLSDAFLSRAMCShS-----FREGI-CRLLEL-----TRRPIFITEG	263	

```

Db      465 KRLIIIVLDNGSEFCCLGSSBEOAIYDALIRBGIKITLLEBKIQDYKMPESIQFIK 524
QY      264 QRRDPAHVALKLLRQHRHVTLLM-----RPGSVTPSSDPFKVQLALPRKVR 312
          :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :  :
Db      555 QK---HGH-----ICMSGDFKFKPQSA--KTRPFKALRYQMPAQR 560

```

RESULT 9

S42633
F1t-1M protein - rat
C|Species: Rattus norvegicus (Norway rat)
C|Date: 25-Dec-1994 #sequence_revision 10-Nov-1995 #text_change 03-Feb-2003
C|Accession: S42633
R|Bergers, G.; Reikstorfer, A.; Braselmann, S.; Gränlinger, P.; Bueslinger, M.
EMBO J. 13, 1176-1188, 1994
A|Title: Alternative promoter usage of the Fos-responsive gene F1t-1 generates mRNA iso-
A|Reference number: S42632; MUID:94178260; PMID:8131748
A|Accession: S42633
A|Status: Preliminary
A|Molecule type: mRNA
A|Residues: 1-247 <BER>

	Query Match	7.6%;	Score 163;	DB 2;	Length 247;
	Beet Local Similarity	28.1%;	Pred. No. 4,4e-06;		
	Matches	Conservative 39;	Mismatches 95;	Indels 32;	Gaps 11
CY	110 LQAGPTSHVA--VLASLTVLLALLLAALVVKC-RLVNVLWYODAYGEVEI-IDGKLY	165S			
Db	3 LRRKQIDHSGSYIVAGCSLLMLFNLVNLVILAKFWIEVALFPWRDIMPAPYKQNDDIKY	62			
CY	166 DAYVS-----SDCEDRKFNFLFKPOLERRRGYLFIIDRPLLRAPSADLVN	217T			
Db	63 DAYIIYPVFGRSAGTGSEVYFVHYTLPOYLENKGGYQLQYGRLLPEQDAATVSS	122Z			
CY	218 LSRCRLLIVLSDAFLSPAWCSHSREEGT-CRLLELTRRPPIITFEGORDRPAHLRT-	275P			
Db	123 IONSRRQYFVLAPPHMWSKEFAVEOELIALHSALIONSKVILLIEME-----PWGESRLQ	177H			
CY	276 ---LRQH-RHLVLT---LLMRPGSTVP-----SSDFAKEQOLAPRCRYRRP	315			
Db	178 LGDLIDSLOHLAVKMGGTIKWEDRDHAADKQSLSKKPKHVRVQMP--VPKR	226			

RESULT 1

T13887
 t1r protein - fruit fly (*Drosophila melanogaster*)
 C.Species: *Drosophila melanogaster*
 C.Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
 C.Accession: T13887
 R.Chang, C.; Beachy, P.A.
 Mech. Dev. 47, 225-239, 1994
 A.Title: Expression of a novel Toll-like gene spans the parasegment boundary and controls
 A.Reference number: Z17805; MUID: 95151581; PMID: 7848870
 A.Accession: T13887
 A.Status: preliminary; translated from GB/EMBL/DBJ
 A.Molecule type: mRNA
 A.Residues: 1-1385 <CHI>
 A.Cross-references: UNIPROT:Q24591; EMBL:S76155; NID:g913247; PID:g913248; PIND:AA8338
 C.Genetics:
 A.Cross-references: FlyBase:FBgn0004364
 A.Note: t1r

	Query Match	6.7%	Score 144.5;	DB 2;	Length 1385;
	Best Local Similarity	26.1%	Pred. No. 0.0014;		
	Matches	68;	Conservative 44;	Mismatches 104;	Indels 45; Gaps 12;
QY	99	SIQNISSSFLQAGPESHVAIVLALVTLLALLLVKRLVNLMTQDYG---	155		
Db	979	SASNISSSQ--DLAG--GYRLPLALVALVLIFFDVLLIVFVRESVRWMLFAHYGVRY	1033		
QY	156	-EVEIND-GKIYDAVVSQDCEPBEKRVNPLIKQQLR-RGYTLFDLDDDLPRAPESA	212		
Db	1034	CEPFEEDAGKLYDIIILHSE--KQYEVCNRIIAELHGGPPFLICIQQSDLPQAS-HL	1090		

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OM protein - protein search, using sw model1

Run on: August 1, 2005, 13:33:56 / Search time 172 Seconds

(without alignments)
1220.654 Million cell updates/sec

Title: US-09-598-443-2

Perfect score: 2147
Sequence: 1 MGVCDRAAPFLSPSEDDVL.....GSRNYSARTPTCYLVSQDM 410

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: UnIPROT_03:*
1: uniprot_sprot:*
2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2147	100.0	410	2 09H733	Q9H733 homo sapien
2	2143	99.8	410	2 06IA17	Q6IA17 homo sapien
3	1876	87.4	504	2 06UX13	Q6UX13 homo sapien
4	1546.5	72.0	409	2 09JL28	Q9JL28 mus musculu
5	267.5	12.5	686	1 IRL2_HUMAN	Q9P60 h x-linked
6	261	12.2	686	1 IRL2_MOUSE	Q9P60 mus musculu
7	257	12.0	695	1 IRL2_MOUSE	Q9P60 mus musculu
8	256.5	11.9	696	1 IRL1_HUMAN	Q9P60 mus musculu
9	256.5	11.9	696	1 IRL1_PANTR	Q9P60 mus musculu
10	256.5	11.9	696	1 IRL1_PANTR	Q9P60 mus musculu
11	255.5	11.9	696	1 IRL1_PANTR	Q9P60 mus musculu
12	254	11.8	537	1 IRL1_PANTR	Q9P60 mus musculu
13	240.5	11.2	541	1 IRL1_PANTR	Q9P60 mus musculu
14	231.5	10.8	541	1 IRL1_PANTR	Q9P60 mus musculu
15	228.5	10.6	570	1 IRL1_PANTR	Q9P60 mus musculu
16	224.5	10.5	539	2 08AXT5	Q8AXT5 mus musculu
17	220	10.2	539	2 08AXT5	Q8AXT5 mus musculu
18	219	10.2	539	2 08AXT5	Q8AXT5 mus musculu
19	218.5	10.2	539	2 08AXT5	Q8AXT5 mus musculu
20	217	10.1	574	1 IRL2_MOUSE	Q9P60 mus musculu
21	215.5	10.0	570	1 IRL2_MOUSE	Q9P60 mus musculu
22	213.5	9.9	569	2 06NMW5	Q6NMW5 mus musculu
23	210.5	9.8	533	2 09DEB1	Q9DEB1 mus musculu
24	210.5	9.8	533	2 09DEB1	Q9DEB1 mus musculu
25	210.5	9.8	533	2 09DEB1	Q9DEB1 mus musculu
26	209.5	9.8	533	2 09DEB1	Q9DEB1 mus musculu
27	207.5	9.7	560	2 06R175	Q6R175 mus musculu
28	206.5	9.6	560	2 06R175	Q6R175 mus musculu
29	204.5	9.5	561	1 IRL2_MOUSE	Q9P60 mus musculu
30	204.5	9.5	561	1 IRL2_MOUSE	Q9P60 mus musculu
31	203.5	9.5	573	2 09TV11	Q9TV11 equus caball

32	202	9.4	556	1 IRL1_HUMAN	Q01638 homo sapien
33	197	9.2	1058	2 076F77	Q76F77 tachipleus
34	196.5	9.2	1152	2 08MR5	Q8MR5 anopheles g
35	196.5	9.2	1152	2 07PFC4	Q7PFC4 anopheles g
36	196.5	9.2	1346	2 09V477	Q9V477 drosophila
37	191.5	8.9	573	2 08C6P3	Q8C6P3 mus musculu
38	190.5	8.9	573	2 08C8J3	Q8C8J3 mus musculu
39	190.5	8.9	575	1 IRL1_MOUSE	Q9P60 mus musculu
40	189.5	8.8	567	1 IRL1_MOUSE	Q9P60 mus musculu
41	189	8.8	599	2 09S256	Q9S256 homo sapien
42	185	8.6	1356	2 08MR2	Q8MR2 anopheles g
43	184	8.6	555	2 090874	Q90874 gallus galli
44	183.5	8.5	571	2 08OFN4	Q8OFN4 salmo salar
45	183	8.5	566	1 IRL1_RAT	Q62611 rattus norv

ALIGNMENTS

RESULT 1
Q9H733 PRELIMINARY; PRT; 410 AA.
ID Q9H733
AC Q9H733
DT 01-MAR-2001 (TREMBLrel. 16, Created)
DT 01-MAR-2001 (TREMBLrel. 16, Last sequence update)
DT 25-OCT-2004 (TREMBLrel. 28, Last annotation update)
DS Hypothetical protein FLJ21446 (SIGIRR protein).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Carnivora; Homiidae; Homo.
OX NCBI_TaxID=9606;
[1]
RN R
RP SEQUENCE FROM N.A.
RC TISSUE=Lung;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242638999;
RA Krausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Schuler G.D.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buettow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusik K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Uedon T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettner M., Madan A., Young A.C., Shcherbakov S., Sanchez A.,
RA Whitting M., Madan A., Young A.C., Shcherbakov S., Bouffard G.G.,
RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butcherfield Y.S.,
RA Krzyzanski M.I., Skalka U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
and mouse cDNA sequences";
Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
[3]
RN R
RP SEQUENCE FROM N.A.
RC TISSUE=Lung;
RX Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
RA EMBL; AK025099; BAB15066.1; -
RA EMBL; BC025953; AAR25953.1; -
DR GO; GO:0016020; C:membrane; IEA.
DR GO; GO:0004888; F:transmembrane receptor activity; IEA.
DR Interpro; IPR007110; Ig-like.
DR Interpro; IPR004075; IL1_receptor1.

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DR InterPro: IPR000157; TIR.
DR Pfam: PF01582; TIR; 1.
DR PRINTS: PRO1517; INTRLNRI.F.
DR PROSITE: PSS0835; IG_LIKE; 1.
DR PROSITE: PSS0104; TIR; 1.
SQ SEQUENCE 410 AA; 45707 MW; 2A7A663D79567ED6 CRC64;

Query Match 100.0%; Score 2147; DB 2; Length 410;
Best Local Similarity 100.0%; Pred. No. 2, 1e-173;
Matches 410; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGVCDRAPDPLSPSEDOVLRLPALGSSVALNCTAMVSGPHCSLPVOMLKDGLPIGIG 60
DB 1 MGVCDRAPDPLSPSEDOVLRLPALGSSVALNCTAMVSGPHCSLPVOMLKDGLPIGIG 60
QY 61 HYSLHEYSWVKANLSEVLVSIVGVNVTSTEVYGAFTCSIQNISFSFSTLQRAQPTSHVA 120
DB 61 HYSLHEYSWVKANLSEVLVSIVGVNVTSTEVYGAFTCSIQNISFSFSTLQRAQPTSHVA 120
QY 121 AVLASLLVLLALLAALLVYKCRNLVLLMWQDAYGVEVINDGKYDAYVYSIDCPEDRKF 180
DB 121 AVLASLLVLLALLAALLVYKCRNLVLLMWQDAYGVEVINDGKYDAYVYSIDCPEDRKF 180
QY 121 AVLASLLVLLALLAALLVYKCRNLVLLMWQDAYGVEVINDGKYDAYVYSIDCPEDRKF 180
DB 121 AVLASLLVLLALLAALLVYKCRNLVLLMWQDAYGVEVINDGKYDAYVYSIDCPEDRKF 180
QY 181 VNEFLKPOLERRRGYKFLDDRDLLPRAEPSADLVNLSRCRLIIVLSDAFLSRAMCSH 240
DB 181 VNEFLKPOLERRRGYKFLDDRDLLPRAEPSADLVNLSRCRLIIVLSDAFLSRAMCSH 240
QY 241 SFREGICRLLELTRRPIFTTFEGQRDPAPALRLRQHRHLVTLMLRPGSVTPSSDFW 300
DB 241 SFREGICRLLELTRRPIFTTFEGQRDPAPALRLRQHRHLVTLMLRPGSVTPSSDFW 300
QY 241 SFREGICRLLELTRRPIFTTFEGQRDPAPALRLRQHRHLVTLMLRPGSVTPSSDFW 300
DB 241 SFREGICRLLELTRRPIFTTFEGQRDPAPALRLRQHRHLVTLMLRPGSVTPSSDFW 300
QY 301 KEVQALPRKRYRYPVEGDPQTOLODDKPMILIRGVPEGRALDSEVPDPEDGLGVNG 360
DB 301 KEVQALPRKRYRYPVEGDPQTOLODDKPMILIRGVPEGRALDSEVPDPEDGLGVNG 360
QY 361 PVGEPSPAPHTSGVSLGSSRSSEVDVSDLSGRNYSARTDFYCLVSKDDM 410
DB 361 PVGEPSPAPHTSGVSLGSSRSSEVDVSDLSGRNYSARTDFYCLVSKDDM 410

RESULT 2
Q61A17 PRELIMINARY; PRT; 410 AA.
AC 061A17;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE SIGIRR protein.
GN Name=SIGIRR;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OC NCBITaxID=9606;
RN 11)
RP SEQUENCE FROM N.A.
RA Ebert L., Schick M., Neubert P., Schatzen R., Henze S., Korn B.;
RL Submitted (JUN-2004) to the EMBL/GenBank/DBJ databases.
DR EMBL: C9457338; CAG33619.1; -.
DR GO: GO:0016020; C:membrane; IEA.
DR GO: GO:0004888; F:transmembrane receptor activity; IEA.
DR InterPro: IPR007110; IG_1like.
DR InterPro: IPR004075; IL1_receptor1.
DR InterPro: IPR000157; TIR.
DR Pfam: PF01582; TIR; 1.
DR PRINTS: PRO1517; INTRLNRI.F.
DR SMART: SM00255; TIR; 1.
DR PROSITE: PSS0835; IG_LIKE; 1.
DR PROSITE: PSS0104; TIR; 1.
SQ SEQUENCE 410 AA; 45689 MW; 2CBA663D79567ED6 CRC64;

Query Match 99.8%; Score 2143; DB 2; Length 410;
Best Local Similarity 99.8%; Pred. No. 4, 5e-173;
Matches 409; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 MGVCDRAPDPLSPSEDOVLRLPALGSSVALNCTAMVSGPHCSLPVOMLKDGLPIGIG 60
DB 1 MGVCDRAPDPLSPSEDOVLRLPALGSSVALNCTAMVSGPHCSLPVOMLKDGLPIGIG 60
QY 61 HYSLHEYSWVKANLSEVLVSIVGVNVTSTEVYGAFTCSIQNISFSFSTLQRAQPTSHVA 120
DB 61 HYSLHEYSWVKANLSEVLVSIVGVNVTSTEVYGAFTCSIQNISFSFSTLQRAQPTSHVA 120
QY 121 AVLASLLVLLALLAALLVYKCRNLVLLMWQDAYGVEVINDGKYDAYVYSIDCPEDRKF 180
DB 121 AVLASLLVLLALLAALLVYKCRNLVLLMWQDAYGVEVINDGKYDAYVYSIDCPEDRKF 180
QY 121 AVLASLLVLLALLAALLVYKCRNLVLLMWQDAYGVEVINDGKYDAYVYSIDCPEDRKF 180
DB 121 AVLASLLVLLALLAALLVYKCRNLVLLMWQDAYGVEVINDGKYDAYVYSIDCPEDRKF 180
QY 181 VNEFLKPOLERRRGYKFLDDRDLLPRAEPSADLVNLSRCRLIIVLSDAFLSRAMCSH 240
DB 181 VNEFLKPOLERRRGYKFLDDRDLLPRAEPSADLVNLSRCRLIIVLSDAFLSRAMCSH 240
QY 241 SFREGICRLLELTRRPIFTTFEGQRDPAPALRLRQHRHLVTLMLRPGSVTPSSDFW 300
DB 241 SFREGICRLLELTRRPIFTTFEGQRDPAPALRLRQHRHLVTLMLRPGSVTPSSDFW 300
QY 301 KEVQALPRKRYRYPVEGDPQTOLODDKPMILIRGVPEGRALDSEVPDPEDGLGVNG 360
DB 301 KEVQALPRKRYRYPVEGDPQTOLODDKPMILIRGVPEGRALDSEVPDPEDGLGVNG 360
QY 361 PVGEPSPAPHTSGVSLGSSRSSEVDVSDLSGRNYSARTDFYCLVSKDDM 410
DB 361 PVGEPSPAPHTSGVSLGSSRSSEVDVSDLSGRNYSARTDFYCLVSKDDM 410

RESULT 3
Q6UX13 PRELIMINARY; PRT; 504 AA.
AC 06UX13;
DT 05-JUL-2004 (TrEMBLrel. 27, Created)
DT 05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE SIGIRR.
GN ORFName=UNQ301;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OC NCBITaxID=9606;
RN 11)
RP SEQUENCE FROM N.A.
RA MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;
RA Clark H.F., Gunney A.L., Abaya E., Baker K., Baldwin D., Brush J.,
RA Chen J., Chow B., Chui C., Crowley C., Cutrell B., Deuel B., Dowd P.,
RA Baton D., Foster J., Grimaldi C., Gu Q., Hase P.E., Heidens S.,
RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,
RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,
RA Seshagiri S., Simone L., Singh J., Smith V., Stinson J., Vagstad A.,
RA Vandlen R., Watanabe C., Wleand D., Woods K., Xie W.H., Yatsura D.,
RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,
RA Godowski P.;
RT "The secreted protein discovery initiative (SPDI), a large-scale
RT effort to identify novel human secreted and transmembrane proteins: a
RT bioinformatics assessment."
RT Genome Res. 13:2265-2270(2003).
DR EMBL: AY358342; AAQ88708.1; -.
DR GO: GO:0016020; C:membrane; IEA.
DR GO: GO:0004888; F:transmembrane receptor activity; IEA.
DR InterPro: IPR007110; IG_1like.
DR InterPro: IPR004075; IL1_receptor1.
DR InterPro: IPR000157; TIR.
DR Pfam: PF01582; TIR; 1.
DR PRINTS: PRO1517; INTRLNRI.F.
DR SMART: SM00255; TIR; 1.
DR PROSITE: PSS0835; IG_LIKE; 1.
DR PROSITE: PSS0104; TIR; 1.
SQ SEQUENCE 504 AA; 55299 MW; B3D4A5A60AF19D28 CRC64;

Query Match 87.4%; Score 1876; DB 2; Length 504;
```

Best Local Similarity 96.8%; Pred. No. 2.6e-150;
Matches 360; Conservative 2; Mismatches 2; Indels 8; Gaps 1;

Qy 1 MPQVCDAPPLPSSEDOVLRLPALGSSVALNCTAMVSGPHCSLPVQWMLKDGILGIGG 60
Db 1 MPQVCDAPPLPSSEDOVLRLPALGSSVALNCTAMVSGPHCSLPVQWMLKDGILGIGG 60
Qy 61 HYSLHESWYKANSEVLSSVLGVNTSTEVYGAFTCSIONISFSSFTLORAGPTSHVA 120
Db 61 HYSLHESWYKANSEVLSSVLGVNTSTEVYGAFTCSIONISFSSFTLORAGPTSHVA 120
Qy 121 AVIASLLVLLALLAALLYYKCRNLVLMYODAYGEVEINDGKYDAYVYSDDPEDRK 180
Db 121 AVIASLLVLLALLAALLYYKCRNLVLMYODAYGEVEINDGKYDAYVYSDDPEDRK 180
Qy 181 VNFILKQLERRRRGYKFLDDRDLPPRAEPSADLLVLSRCRLIVLSDAFLSRACSH 240
Db 181 VNFILKQLERRRRGYKFLDDRDLPPRAEPSADLLVLSRCRLIVLSDAFLSRACSH 240
Qy 241 SFREGCLRLLELTRPIFTFEGQRDPAPHALRLROHRLVTLMLRPGSVTPSSDFW 300
Db 241 SFREGCLRLLELTRPIFTFEGQRDPAPHALRLROHRLVTLMLRPGSVTPSSDFW 300
Qy 301 KEVQALPRKVRYPVEGDPQTLQDDKDPMLILRGVPEGRALDSEVDPPEGDLGVRG 360
Db 301 KEVQALPRKVRYPVEGDPQTLQDDKDPMLILRGVPEGRALDSEVDPPEGDLGVRG 360
Qy 361 PVFGEPSAPPHPT 372
Db 359 -----PAOPHS 364

RESULT 4

Q9JLZ8 PRELIMINARY; PRT; 409 AA.
AC Q9JLZ8;
DT 01-OCT-2000 (TREMBLrel. 15, Created)
DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)
DE 01-MAR-2004 (TREMBLrel. 26, Last annotation update)
DE T011/interleukin-1 receptor 8.
GN Name=A1256711; Synonyms=TR18;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA PubMed=14993616; DOI=10.1073/pnas.0308680101;
RA Garlanda C., Riva F., Polentarutti N., Butcher C., Sironi M.,
RA De Bortoli M., Muzio M., Bergocchini R., Scanziani E., Vecchi A.,
RA Hirsch E., Mantovani A.;
RT "Interleukin-1 receptor family.";
RT member of the IL-1 receptor family.";
RT Proc. Natl. Acad. Sci. U.S.A. 101:3522-3526 (2004).
RN [2]
RP SEQUENCE FROM N.A.
RA Benton-Rol G., Polentarutti N., Muzio M., Mantovani A.;
RA Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.
RL EMBL; AF113795; AAF26200.1;
DR MGD; MGI:134402; A1256711.
DR GO; GO:0016021; C:integral to membrane; TAS.
DR InterPro; IPR003599; IPR003599; IPR003599;
DR InterPro; IPR007110; IPR007110; IPR007110;
DR InterPro; IPR004075; IPR004075; IPR004075;
DR InterPro; IPR001577; IPR001577; IPR001577;
DR Pfam; PF00047; PF00047; PF00047;
DR Pfam; PF01582; PF01582; PF01582;
DR PRINTS; PRO1537; PRO1537; PRO1537;
DR SMART; SM00409; SM00409; SM00409;
DR PROSITE; PSS00835; PSS00835; PSS00835;
DR PROSITE; PSS0104; PSS0104; PSS0104;
KM Receptor.
SO SEQUENCE 409 AA; 45707 MW; DC4AB99A72356A13 CRC64;

Query Match 72.0%; Score 1546.5; DB 2; Length 409;
Best Local Similarity 72.7%; Pred. No. 1.7e-122;
Matches 303; Conservative 32; Mismatches 67; Indels 15; Gaps 4;

Qy 1 MPQVCDAPPLPSSEDOVLRLPALGSSVALNCTAMVSGPHCSLPVQWMLKDGILGIGG 60
Db 1 MPQVCDAPPLPSSEDOVLRLPALGSSVALNCTAMVSGPHCSLPVQWMLKDGILGIGG 60
Qy 61 HYSLHESWYKANSEVLSSVLGVNTSTEVYGAFTCSIONISFSSFTLORAGPTSHVA 120
Db 61 HYSLHESWYKANSEVLSSVLGVNTSTEVYGAFTCSIONISFSSFTLORAGPTSHVA 120
Qy 121 AVIASLLVLLALLAALLYYKCRNLVLMYODAYGEVEINDGKYDAYVYSDDPEDRK 180
Db 121 AVIASLLVLLALLAALLYYKCRNLVLMYODAYGEVEINDGKYDAYVYSDDPEDRK 180
Qy 181 VNFILKQLERRRRGYKFLDDRDLPPRAEPSADLLVLSRCRLIVLSDAFLSRACSH 240
Db 181 VNFILKQLERRRRGYKFLDDRDLPPRAEPSADLLVLSRCRLIVLSDAFLSRACSH 240
Qy 241 SFREGCLRLLELTRPIFTFEGQRDPAPHALRLROHRLVTLMLRPGSVTPSSDFW 300
Db 241 SFREGCLRLLELTRPIFTFEGQRDPAPHALRLROHRLVTLMLRPGSVTPSSDFW 300
Qy 301 KEVQALPRKVRYPVEGDPQTLQDDKDPMLILRGVPEGRALDSEVDPPEGDLGVRG 360
Db 301 KEVQALPRKVRYPVEGDPQTLQDDKDPMLILRGVPEGRALDSEVDPPEGDLGVRG 360
Qy 361 PVFGEPSAPPHPT 372
Db 353 GDLGVRGVPGEPSAPPHPTGVLGESSRSEVDVSDGSNYSARTDFYCLVSKDM 410
353 GDLGVRGVPGEPSAPPHPTGVLGESSRSEVDVSDGSNYSARTDFYCLVSKDM 410

RESULT 5

IPL2 HUMAN STANDARD; PRT; 686 AA.
AC Q9NZO; Q9NZO;
DT 10-OCT-2003 (Rel. 42, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DE 05-JUN-2004 (Rel. 44, Last annotation update)
DE X-linked interleukin-1 receptor accessory protein-like 2 precursor
DE (IL1RAPL-2 related protein) (Interleukin-1 receptor 9) (IL-1R9) (IL-1
DE receptor accessory protein-like 2) (Three immunoglobulin domain-
DE containing IL-1 receptor-related 1) (TIGIR-1).
GN Name=IL1RAPL2; Synonyms=IL1R9;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A. AND TISSUE SPECIFICITY.
RA MEDLINE=20487552; PubMed=11031108; DOI=10.1006/geno.2000.6128;
RA Sana T.R., Debeis R., Timans J.C., Bazan J.F., Kastlein R.A.;
RT "Computational identification, cloning, and characterization of IL-
RT 1R9, a novel interleukin-1 receptor-like gene encoded over an
RT unusually large interval of human chromosome Xq22.2-q22.3.";
RL Genomics 69:252-262 (2000).
RN [2]
RP SEQUENCE FROM N.A. AND TISSUE SPECIFICITY.
RA TISSUE=Liver;
RA MEDLINE=20459050; PubMed=10882729; DOI=10.1074/jbc.M00407200;
RA Born T.L., Smith D.E., Garika K.E., Renshaw B.R., Bertles J.S.;
RA Sims J.E.;
RT "Identification and characterization of two members of a novel class
RT of the interleukin-1 receptor (IL-1R) family. Delineation of a new
RT class of IL-1R-related proteins based on signaling.";
RL J. Biol. Chem. 275:29946-29954 (2000).
RN [3]
RP SEQUENCE FROM N.A.
RA Grabowski M., Lorenz B., Hubel R., Strom T.M.;

RT "A gene (IL1RAPL2) with 61% identity to IL1RAPL maps to Xq22.2.";
RL Submitted (FEB-2000) to the EMBL/GenBank/DBJ databases.
RN [4]
RP SEQUENCE FROM N.A., AND TISSUE SPECIFICITY.
RC TISSUE=Brain;
RX MEDLINE=21472256; PubMed=11587848; DOI=10.1016/S0378-1119(01)00659-X;
RA Ferrante M.I., Ghilani M., Bulfone A., Franco B.;
RT "IL1RAPL2 maps to Xq22 and is specifically expressed in the central nervous system.";
RL Gene 275:217-221(2001).
RN [5]
RP SEQUENCE OF 29-686 FROM N.A.
RX MEDLINE=20218565; PubMed=10757639; DOI=10.1038/sj.ejhg.5200415;
RA Jin H., Vivesvaratharaj R., Gardner R.J., Roberts R.G.;
RT "Two novel members of the interleukin-1 receptor gene family, one deleted in Xp22.3-Xp21.3 mental retardation.";
RL Eur. J. Hum. Genet. 8:87-94(2000).
CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
CC -1- TISSUE SPECIFICITY: Detected at low levels in fetal and adult brain, in particular in the frontal lobe, temporal lobe and cerebellum. Detected at very low levels in skin, liver, fetal ovary and in placenta.
CC -1- SIMILARITY: Belongs to the interleukin-1 receptor family.
CC -1- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.
CC -1- SIMILARITY: Contains 1 TIR domain.
CC -----
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CC -----
DR EMBL: AF212016; AAF61307.1; -;
DR EMBL: AF284436; AAG21370.1; -;
DR EMBL: AJ272208; CAB86868.1; -;
DR EMBL: AJ290436; CAB89867.1; -;
DR EMBL: AP181285; AAF59412.1; -;
DR HSSP: Q63345; 1PKO.
DR Genew; HGNC:5997; IL1RAPL2.
DR MIM; 300277; -;
DR GO; GO:0016020; C:membrane; ISS.
DR GO; GO:0004908; F:interleukin-1 receptor activity; TAS.
DR GO; GO:0007417; P:central nervous system development; TAS.
DR GO; GO:0007417; P:central nervous system development; TAS.
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR004075; IL1_receptor1.
DR InterPro; IPR004077; IL1_receptor1p.
DR InterPro; IPR00157; TIR.
DR Pfam; PF00047; Ig; 3.
DR Pfam; PF01582; TIR; 1.
DR PRINTS; PRO1539; INTRLEUKN1R2.
DR PRINTS; PRO1537; INTRLEUKN1R1F.
DR SMART; SM00409; IG; 3.
DR SMART; SM00255; TIR; 1.
DR PROSITE; PSS0835; IG_LIKE; 3.
DR PROSITE; PSS0104; TIR; 1.
KW Glycoprotein; Immunoglobulin domain; Receptor; Repeat; Signal; Transmembrane.
KW
FT SIGNAL 1 16 Potential.
FT CHAIN 17 686 X-linked interleukin-1 receptor accessory
FT DOMAIN 17 354 Extracellular 2. (Potential).
FT TRANSMEM 355 375 Potential.
FT DOMAIN 376 686 Cytoplasmic (Potential).
FT DOMAIN 18 132 Ig-like C2-type 1.
FT DOMAIN 141 232 Ig-like C2-type 2.
FT DOMAIN 239 347 Ig-like C2-type 3.
FT DOMAIN 400 559 TIR.
FT DISULFID 53 116 Potential.
FT DISULFID 162 214 Potential.
FT DISULFID 265 331 Potential.

FT CARBOHYD 63 63 N-linked (GlcNAc...) (Potential).
FT CARBOHYD 120 120 N-linked (GlcNAc...) (Potential).
FT CARBOHYD 136 136 N-linked (GlcNAc...) (Potential).
FT CARBOHYD 211 211 N-linked (GlcNAc...) (Potential).
FT CARBOHYD 328 328 N-linked (GlcNAc...) (Potential).
SQ SEQUENCE 686 AA; 78669 MW; E400F7BCD186957C CRC64;
Query Match 12.5%; Score 267.5; DB 1; Length 686;
Best local similarity 26.7%; Pred. No. 16-13;
Matches 111; Conservative 75; Mismatches 152; Indels 77; Gaps 21;
QY 6 DRAPDFLSPEEQ-VLRPALGSSVALNCTAVV-VSGPHCSLPSYQWLK-DGLPLGIGGH 61
DB 237 DKPKKPLFPMENQPSVIDVQLKPINIPCKAFPGSGE--SGPMIYMKGEKFEIELAGH 294
QY 62 YSLHEISWYKANLSE-----VLSSVGLGVNTSTREYVAFPCSIONIS---FSSFTLOR 112
DB 295 IREGETRLKEHLEGEVEVELAIFPSVBRADLAN-----YTCHEENRGRKASVTLRK 348
QY 113 AGPTSHV--AAVLASLVLLALLLAALVYKCRNLVTLWYODAYGEVEIN-DGKLYDAYV 169
DB 349 KDLIYKIELAGLGLAFLVLVLV--VIYKCYNIEMLFYRQFGADETNDDKEDAYLV 406
QY 170 SYS-----DC--PEDRKFNFTIKPOLERRRGYKLFLDDRDLPRAPSPADLVNLSR 220
DB 407 SYTKVQDPTLDCDNDPEBGFALVELPDVLEKHYGYKLFPERDLPISGTVMEDLTRVYG 466
QY 221 CRLIYVLS-DAFLSAWCSHSFREGLCRL--ELTRPPIITTEGGRDPRAHPLRL 276
DB 467 SRRLIIVLPDPIYLRGWSIFELERLHNMVLSGEI--KVIIIECTELGKYNCOVEBL 524
QY 277 ROHRHLVTLTLRPGSVTP--SSDFPKVEYQLLPRVVRVRPVGDPQDTQLDDKDMTL 334
DB 525 KKSITKLSLIKWK-GSKSKLSKSKWKHLVYEMPIK-----KKEML-- 564
QY 335 RGRVPEGRALDEVDPEGDGVGPGVGPBPAPHTSGVSLGESRSSEVDVSD 389
DB 565 ----PRCHVLDS-----AEQGLFGEIQLPISIMNTSRSATL--VSSQADLPE 605
RESULT 6
ID IPL2_MOUSE STANDARD; PRT; 686 AA.
AC O9ER66; O9ER66;
DT 10-OCT-2003 (Rel. 42, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE X-linked interleukin-1 receptor accessory protein-like 2 precursor
DE (IL1RAPL2-related protein) (TIGIR-1).
GN Name=IL1RAPL2;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_Taxid=10090;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORM 1).
RC TISSUE=Brain, and Liver;
RX MEDLINE=20459050; PubMed=10882729; DOI=10.1074/jbc.M004077200;
RA Born T.L., Smith D.E., Garika K.E., Renshaw B.R., Bertles J.S., Sims J.E.;
RT "Identification and characterization of two members of a novel class of the interleukin-1 receptor (IL-1R) family. Deletion of a new RT class of IL-1R-related proteins based on signaling.";
RL J. Biol. Chem. 275:29946-29954(2000).
RN [2]
RP SEQUENCE FROM N.A. (ISOFORM 2), AND TISSUE SPECIFICITY.
RC TISSUE=Brain;
RX MEDLINE=21472256; PubMed=11587848; DOI=10.1016/S0378-1119(01)00659-X;
RA Ferrante M.I., Ghilani M., Bulfone A., Franco B.;
RT "IL1RAPL2 maps to Xq22 and is specifically expressed in the central nervous system.";
RL Gene 275:217-221(2001).
CC -1- SUBCELLULAR LOCATION: Type I membrane protein.


```

CC -!- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Name=1;
CC IsoId=Q9ERS6-1; Sequence=Displayed;
CC Name=2;
CC IsoId=Q9ERS6-2; Sequence=VSP_008056, VSP_008057;
CC Note=may be due to an intron retention;
CC -!- TISSUE SPECIFICITY: Detected in fetal brain after day 12.5, in
CC particular in parts of the diencephalon and in the basal plate of
CC the spinal cord. In postnatal brain detected in cerebral cortex,
CC olfactory bulb, in the CA1 region of the hippocampus and in
CC Purkinje cells of the Xth cerebellar lobule.
CC -!- SIMILARITY: Belongs to the interleukin-1 receptor family.
CC -!- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.
CC -!- SIMILARITY: Contains 1 TIR domain.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
CC
CC EMBL, AF284437, AAC3137.1, -.
CC EMBL, AJ277831, CAC10559.1, -.
CC HSSP, Q63345, IPRO.
CC GCD, MGI:1913106, 11xrap12.
CC GO, GO:0016020, C:membrane, IS6.
CC InterPro, IPRO03599, IG_-like.
CC InterPro, IPRO07110, IG_-like.
CC InterPro, IPRO04075, IL1_receptor1.
CC InterPro, IPRO04077, IL1_receptorTIR.
CC InterPro, IPRO00157, TIR.
CC Pfam, PF00047, Ig_3.
CC Pfam, PF01582, TIR_1.
CC PRINTS, PRO1539, INTRLEUKINR2.
CC PRINTS, PRO1537, INTRLEUKINR1F.
CC SMART, SM00409, IG_3.
CC SMART, SM00255, TIR_1.
CC PROSITE, PS50835, IG_LIKE_3.
CC PROSITE, PS50104, TIR_1.
CC
CC Alternative splicing; Glycoprotein; Immunoglobulin domain; Receptor;
CC Repeat; Signal; Transmembrane.
CC KW SIGNAL 1 16
CC CHAIN 17 686
CC
CC DOMAIN 17 354
CC FT 17 354
CC TRANSMEM 355 375
CC FT 355 375
CC DOMAIN 376 686
CC FT 376 686
CC DOMAIN 382 132
CC FT 141 232
CC DOMAIN 239 347
CC FT 400 559
CC DOMAIN 53 116
CC FT 53 116
CC DISULFID 162 214
CC FT 162 214
CC DISULFID 265 331
CC FT 265 331
CC CARBOHYD 63
CC FT 120 120
CC CARBOHYD 136 136
CC FT 211 211
CC CARBOHYD 328 328
CC FT 328 328
CC VARSPLIC 350 354
CC FT 354
CC VARSPLIC 355 686
CC FT 686
CC SEQUENCE 686 AA; 78797 MW; 36160D1CDB9B8264 CRC64;
CC
CC Query Match 12.2%; Score 261; DB 1; Length 686;
CC Beac Local Similarity 28.9%; Pred. No. 3.7e-13;
CC Matches 98; Conservative 65; Mismatches 126; Indels 50; Gaps 18;

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Db      237 DKPKPLPEMENQSVDIVQLGKPLNTPCKKFPFGSGE--SGPMITYMKGEKFIPELLAGH 294
Qy      62 YSLHEYSWVKANLSB-----VLVSVYLVGNVSTEVYGAFTCSIONIS---FSSFTLQR 112
Db      295 IREGIEIRLTKHGLDEKVELVTLIPDSVVEADLAN-----YTCYVENNRNGKHA5VLLRK 348
Qy      113 AGPISHV--AAVLASLVLLALLAAILYVKCRNLVLLMYDADAGEV-INDGKLYDAYV 169
Db      349 KDLIYKIELAGLGAIFLLITLL--VYKCYNIELMFYKQRFQGGETTDNKEKYDAYL 406
Qy      170 SYS-----DC--PEDKKPNFLIKPQLERRGYKFLDLDRLDLPRAEPSADLLVNL5R 220
Db      407 SYTKVDDPTLDCNDTEBQFALBILPDVLEKHYGKLFPERDL---PSGYIEIDLTR 462
Qy      221 C-----RLILVLS--DAFLSRAMCSHSFREGLCRL--ELTRRPFIITFEGQRDPAPHA 272
Db      463 CVEGSRRIIVLTLDYILRRQMSFEELESRLANMLVSEI--KYILLECTLLKGVKNQGE 520
Qy      273 LRLIRQHRHLVTLILMR-PGVSVDPSDDPFWKEVQALPRK 310
Db      521 VESLKHNIKLLSLIKWKGPKSSKLNSKFWKCHLVYEMPIK 559

RESULT 7
ID      1P_L1_MOUSE STANDARD; PRT; 695 AA.
AC      P59823;
DT      10-OCT-2003 (Rel. 42, Created)
DT      10-OCT-2003 (Rel. 42, Last sequence update)
DT      05-JUL-2004 (Rel. 44, Last annotation update)
DE      X-linked interleukin-1 receptor accessory protein-like 1 precursor
        (IL1RAPL-1).
GN      Name=Il1rapl1;
OS      Mus musculus (Mouse).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
        Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX      NCBI_TaxID=10090;
RN      [1]
RP      CONCEPTUAL TRANSLATION.
RA      Hinz U;
RL      Unpublished observations (AUG-2003).
CC      1- SUBCELLULAR LOCATION: Type 1 membrane protein.
CC      1- SIMILARITY: Belongs to the interleukin-1 receptor family.
CC      1- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.
CC      1- SIMILARITY: Contains 1 TIR domain.
CC      1- CAUTION: This is a conceptual translation using ESTs and genomic
        sequences, in analogy to ortholog sequences.
CC      -----
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        or send an email to license@ebi.ac.uk).
CC      -----
Cc      EMBL; AL644900; -; NOT_ANNOTATED_CDS.
Cc      EMBL; AL672059; -; NOT_ANNOTATED_CDS.
Cc      EMBL; AK081272; -; NOT_ANNOTATED_CDS.
Cc      InterPro; IPR007110; IG-like.
Cc      InterPro; IPR003598; IG_c2.
Cc      InterPro; IPR004075; IL1_receptor1.
Cc      InterPro; IPR000157; TIR.
Cc      Pfam; PF00047; Ig_2.
Cc      Pfam; PF01582; TIR; 1.
Cc      PRINTS; PR01537; INTRLNRI1F.
Cc      SMART; SM00408; IGC2; 1.
Cc      SMART; SM00255; TIR; 1.
Cc      PROSITE; PS50835; IG_LIKE; 3.
Cc      PROSITE; PS50104; TIR; 1.
Cc      Glycoprotein,Immunoglobulin domain, Receptor; Repeat; Signal;
        Transmembrane.

```

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FT SIGNAL 1 24 Potential.
FT CHAIN 25 695 X-linked interleukin-1 receptor accessory
FT DOMAIN 25 357 protein-like 1.
FT TRANSMEM 358 378 Extracellular (Potential).
FT DOMAIN 379 695 Cytoplasmic (Potential).
FT DOMAIN 25 134 Ig-like C2-type 1.
FT DOMAIN 143 232 Ig-like C2-type 2.
FT DOMAIN 242 350 Ig-like C2-type 3.
FT DOMAIN 403 561 TIR.
FT DISULFID 53 118 Potential.
FT DISULFID 164 216 Potential.
FT DISULFID 267 334 Potential.
FT CARBOHYD 63 63 N-linked (GLNAC. . .) (Potential).
FT CARBOHYD 122 122 N-linked (GLNAC. . .) (Potential).
FT CARBOHYD 138 138 N-linked (GLNAC. . .) (Potential).
FT CARBOHYD 213 213 N-linked (GLNAC. . .) (Potential).
FT CARBOHYD 264 264 N-linked (GLNAC. . .) (Potential).
FT CARBOHYD 331 331 N-linked (GLNAC. . .) (Potential).
SQ SEQUENCE 695 AA; 79630 MW; 5FE34F204E5908B7 CRC64;

Query Match 12.0%; Score 257; DB 1; Length 695;
Best Local Similarity 26.2%; Pred. No. 8.2e-13;
Matches 95; Conservative 64; Mismatches 145; Indels 58; Gaps 17;

QY 6 DRAPDLSPSEDC--VLRPALGSSVALNCTAMVVSQPHCSLPVOMLKDGLPIGIGHS 63
DB 239 DKPPKLYPMESKLTVOETOLGGSANITCPAPFGYSDVS-PLITYMK-----GEKF 289
QY 64 LHEYS---W-----VKANLSEVYSSVLGVNVTSTEVYGAFTCSIONIS---FSSFTL 110
DB 290 IEIDLNRVWESDIRLKEHGEQVSIILVDSVERGDLGNVSCYVENGNGRHASYLL 349
QY 111 QARGPISHVAVALSLVLLALLLALLYKC-RLNVLLMYQAYGEVEIN-DGKIYDAY 168
DB 350 HKR-ELMYTVELAGGAILLLICSTYIKCYKIEIMLYRNHFGAEIDGDKNDYDAY 408
QY 169 VVS-----DCEPRKFNPLIKPOLERRRGYGLPDDRLLPRAFSADLVNYS 219
DB 409 LSTYTKDDPMQMOGTGEERFALILPDMLEKYGKGLFPDDLLPTGN-----IEDVA 463
QY 220 RC-----RLIVLSDAF-LSRAWCSHFREGCLRLLELT-RLPIFTFEGQRDPAPAL 273
DB 464 RCDQSGRLIIWTPNVVARGMSIFLETRLNMLVTGIXYLLIECSLRGIMNYQEV 523
QY 274 RLIRGRHVLTLIMR-EGSVTPSSDPKQVQALPRKXRYRPV-----EGDPQTQ 323
DB 524 EALKHTIKLTLVKMGKPKCNKLSKFKRKLYQYEMPRK-RIEPIYTHEQALDVSEQGFGE 582
QY 324 LQ 325
DB 583 LQ 584

RESULT 8
IPIL HUMAN STANDARD; PRT; 696 AA.
ID IPIL HUMAN STANDARD; PRT; 696 AA.
AC Q9NZN1; Q9U53;
DT 10-OCT-2003 (Rel. 42, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE X-linked interleukin-1 receptor accessory protein-like 1 precursor
DE (IL1RAPL-1) (Oligophrenin-4) (Three immunoglobulin domain-containing
DE IL-1 receptor-related 2) (TIGIR-2).
GN Name=IL1RAPL; Synonyms=OPHN4;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A., DISEASE, TISSUE SPECIFICITY, AND ALTERNATIVE
RP SPLICING.
RC TISSUE=Fetal brain;
```

```
RX MEDLINE=94400548; PubMed=10471494; DOI=10.1038/12623;
RA Carrie A., Jun L., Bienvenu T., Vinet M.-C., McConnell N., Couvert P.,
RA Zemm R., Cardona A., Van Buggenhout G., Frantz S., Hamel B.,
RA Moraine C., Kopers H.-H., Strom T., Howell G.R., Whitaker A.,
RA Rose M.T., Kahn A., Frys J.-P., Beldjord C., Marynen P., Chelly J.,
RA "A new member of the IL-1 receptor family highly expressed in
RA hippocampus and involved in X-linked mental retardation.";
RL Nat. Genet. 23:25-31(1999).
RN [2]
RN SEQUENCE FROM N.A., AND DISEASE.
RX MEDLINE=20218565; PubMed=10757639; DOI=10.1038/sj.ejhg.5200415;
RA Jin H., Gardner R.J., Vismewarajah R., Muntont F., Roberts R.G.;
RT "Two novel members of the interleukin-1 receptor gene family, one
RT deleted in Xp22.3-Xp21.3 mental retardation.";
RL Eur. J. Hum. Genet. 8:87-94(2000).
RN [3]
RN SEQUENCE FROM N.A., AND TISSUE SPECIFICITY.
RC TISSUE=Brain, and Testis;
RX MEDLINE=20459050; PubMed=10882729; DOI=10.1074/jbc.M004077200;
RA Born T.L., Smith D.E., Garika K.E., Renshaw B.R., Bertles J.S.,
RA Sime J.E.;
RT "Identification and characterization of two members of a novel class
RT of the interleukin-1 receptor (IL-1R) family. Delineation of a new
RT class of IL-1R-related proteins based on signaling.";
RL J. Biol. Chem. 275:29946-29954(2000).
RN [4]
RN SEQUENCE FROM N.A.
RX MEDLINE=22763540; PubMed=12777533; DOI=10.1093/molbev/meg134;
RA Kitzano T., Schwarz C., Nickel B., Paado S.;
RT "Gene diversity patterns at 10 X-chromosomal loci in humans and
RT chimpanzees.";
RL Mol. Biol. Evol. 20:1281-1289(2003).
CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
CC -1- ALTERNATIVE PRODUCTS: Type I membrane protein.
CC Event=Alternative splicing; Named isoforms=1;
CC Comment=A number of isoforms are produced;
CC Name=1;
CC -1- IsoId=Q9NZN1-1; Sequence=Displayed;
CC -1- TISSUE SPECIFICITY: Detected at low levels in heart, skeletal
CC muscle, ovary, skin, and in amygdala, caudate nucleus, corpus
CC callosum, hippocampus, substantia nigra and thalamus. Detected at
CC very low levels in tonsil, prostate, testis, small intestine,
CC placenta, colon and fetal liver.
CC -1- DISEASE: Defects in IL1RAPL are a cause of nonspecific X-linked
CC mental retardation (MRX34) [MIM:300426]. Several forms of X-linked
CC mental retardation have been described; they are classified as
CC non-specific if there are no other characteristic clinical
CC symptoms.
CC -1- SIMILARITY: Belongs to the interleukin-1 receptor family.
CC -1- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.
CC -1- SIMILARITY: Contains 1 TIR domain.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; AJ243874; CAB56046.1; -
CC EMBL; AF181284; AAF59411.1; -
CC EMBL; AF284435; AAG21369.1; -
CC EMBL; AB102650; BAC81119.1; -
CC HSSP; F11362; 1EVT.
CC Genew; HGNC:5996; IL1RAPL1.
CC MIM; 300426; -
CC GO; GO:0016020; C:membrane; ISS.
CC GO; GO:0004872; F:receptor activity; TAS.
CC GO; GO:0007611; P:learning and/or memory; TAS.
CC InterPro; IPR007110; Ig-like.
CC InterPro; IPR004075; IL1_receptor1.
```

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DR InterPro: IPR000157; TIR.
DR Pfam: PF00047; Ig; 2.
DR PRINTS: PRO1582; TIR; 1.
DR PROSITE: PRO1537; INTRLNRI.F.
DR PROSITE: PSS0835; IG LIKE; 3.
DR PROSITE: PSS0104; TIR; 1.
KM Alternative splicing: Glycoprotein; Immunoglobulin domain; Receptor;
KW Repeat; Signal; Transmembrane.
FT SIGNAL 1 18
FT CHAIN 19 696
FT DOMAIN 19 357
FT TRANSMEM 358 378
FT DOMAIN 379 696
FT DOMAIN 19 134
FT DOMAIN 143 232
FT DOMAIN 242 350
FT DOMAIN 403 562
FT DISULFID 53 118
FT DISULFID 164 216
FT DISULFID 267 334
FT CARBOHYD 63 63
FT CARBOHYD 122 122
FT CARBOHYD 138 138
FT CARBOHYD 213 213
FT CARBOHYD 264 264
FT CARBOHYD 331 331
SQ SEQUENCE 696 AA; 79968 MW; 9B7A0B503D73CCA9 CRC64;

Query Match 11.9%; Score 256.5; DB 1; Length 696;
Best Local Similarity 26.5%; Pred. No. 9.1e-13;
Matches 95; Conservative 64; Mismatches 149; Indels 51; Gaps 15;

QY 6 DRAPDPLSPEDQ--VLRPALGSSVALNCTAWVSGPHCSLPVSQWLKDLPLGIGHY 63
DB 239 DKPKKLTPMESKLTIGETQLGDSANLTCAAFGYSQGV-PLIYWK-----GEKF 289
QY 64 LHEYS-----W-----VKANLSEVLVSGLVAVNTSTREVGAFYCSIONIS--FSSFTL 110
DB 290 IEDDENRWVESDRIKLEHNGEVSISLIVDSVERGDLGNVCYVENGGRHNASVLL 349
QY 111 QRAG--PTSHVAVALSLVLLALLAALLVVKRLVLLMYODAYGEVEIN-DGKLYDA 167
DB 350 HKELMTVBLAGGLGAILLLVCLVT--IYCKYKIEIMLFYRNHFGAEELDGDKYDA 407
QY 168 YVYS-----DCEDEKRFVNFILKPOLERRRGYKFLPDRDLPRAPESADLLVNL 218
DB 408 YLSTYKVDPMQMOETGESEERFALILPDMLEKHYGYKFLIPRDLPLPTGYIEDVAVCV 467
QY 219 SRCLRILVLSDAF-LSRAWCSHSFRGLCRLELTR-RPIFTFEGQRDPAPALRL 276
DB 468 DQSKRLIIVMTPNVYVRRGHSIFELSTRRLNMLVTGEIKVILLIECSRLGIMNYQEVAL 527
QY 277 RQRHILVTLMLR-PGSVTSDDMKVEVOLAIPKVAHYRPV-----EGDQDTQLQ 325
DB 528 KHTIKLIVTKMGSPCKNLSKFKRLLQYEMPRK-RIPFTHEQALDVSGQFGELQ 585

RESULT 9
ID IPUL_PANTR STANDARD; PRT; 696 AA.
AC P60029;
DT 29-MAR-2004 (Rel. 43, Created)
DT 29-MAR-2004 (Rel. 43, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE X-linked interleukin-1 receptor accessory protein-like 1 precursor
DE (IL1RAPL-1) (Oligophrenin-4).
GN Name=IL1RAPL; Synonym=OPHN4;
OS Pan troglodytes (Chimpanzee);
OC Eukaryota; Metazoa; Chordata; Ctenostoma; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Pan.
OX NCBI_TaxID=9598;
[1]

```

```

RP SEQUENCE FROM N.A.
RX MEDLINE=22763540; PubMed=1277533; DOI=10.1093/molbev/meg134;
RA Klicano T., Schwarz C., Nickel B., Paabo S.;
RT "Gene diversely patterned at 10 X-chromosomal loci in humans and
  chimpanzees";
  Mol. Biol. Evol. 20:1281-1289(2003).
CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
CC -1- SIMILARITY: Belongs to the interleukin-1 receptor family.
CC -1- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.
CC -1- SIMILARITY: Contains 1 TIR domain.
CC -----
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  or send an email to license@ebi.ac.uk).
CC -----
DR EMBL, AB102651; BAC81120.1; -.
DR InterPro: IPR007110; Ig-like.
DR InterPro: IPR00157; TIR.
DR Pfam: PF00047; Ig; 2.
DR Pfam: PF01582; TIR; 1.
DR PROSITE: PSS0835; IG LIKE; 3.
DR PROSITE: PSS0104; TIR; 1.
DR Glycoprotein; Immunoglobulin domain; Receptor; Repeat; Signal;
KW Transmembrane.
FT SIGNAL 1 18
FT CHAIN 19 696
FT DOMAIN 19 357
FT TRANSMEM 358 378
FT DOMAIN 379 696
FT DOMAIN 19 134
FT DOMAIN 143 232
FT DOMAIN 242 350
FT DOMAIN 403 562
FT DISULFID 53 118
FT DISULFID 164 216
FT DISULFID 267 334
FT CARBOHYD 63 63
FT CARBOHYD 122 122
FT CARBOHYD 138 138
FT CARBOHYD 213 213
FT CARBOHYD 264 264
FT CARBOHYD 331 331
SQ SEQUENCE 696 AA; 79968 MW; 9B7A0B503D73CCA9 CRC64;

Query Match 11.9%; Score 256.5; DB 1; Length 696;
Best Local Similarity 26.5%; Pred. No. 9.1e-13;
Matches 95; Conservative 64; Mismatches 149; Indels 51; Gaps 15;

QY 6 DRAPDPLSPEDQ--VLRPALGSSVALNCTAWVSGPHCSLPVSQWLKDLPLGIGHY 63
DB 239 DKPKKLTPMESKLTIGETQLGDSANLTCAAFGYSQGV-PLIYWK-----GEKF 289
QY 64 LHEYS-----W-----VKANLSEVLVSGLVAVNTSTREVGAFYCSIONIS--FSSFTL 110
DB 290 IEDDENRWVESDRIKLEHNGEVSISLIVDSVERGDLGNVCYVENGGRHNASVLL 349
QY 111 QRAG--PTSHVAVALSLVLLALLAALLVVKRLVLLMYODAYGEVEIN-DGKLYDA 167
DB 350 HKELMTVBLAGGLGAILLLVCLVT--IYCKYKIEIMLFYRNHFGAEELDGDKYDA 407
QY 168 YVYS-----DCEDEKRFVNFILKPOLERRRGYKFLPDRDLPRAPESADLLVNL 218
DB 408 YLSTYKVDPMQMOETGESEERFALILPDMLEKHYGYKFLIPRDLPLPTGYIEDVAVCV 467
QY 219 SRCLRILVLSDAF-LSRAWCSHSFRGLCRLELTR-RPIFTFEGQRDPAPALRL 276
DB 468 DQSKRLIIVMTPNVYVRRGHSIFELSTRRLNMLVTGEIKVILLIECSRLGIMNYQEVAL 527

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QY 277 RCRHRLVTLMLMR-PSGVTSPSDFWKEVQALPRKYRYPV-----EGDPOTOLQ 325
Db 528 KHTIKLTVTKMGPCKNKNLSKFWKRLQYEMFPK-RIBPITHQALDVSEQGFSELO 585

RESULT 10
ID IP1L RAT STANDARD; PRT; 696 AA.
AC P59824;
DT 10-OCT-2003 (Rel. 42, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE X-linked interleukin-1 receptor accessory protein-like 1 precursor (IL1RAPL-1).
GN Name=Il1rapl1;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxId=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Kistler; TISSUE=Hippocampus;
RA Boda B., Patel L., Muller D.;
RT "Full length cloning of rat IL1RAPL in the hippocampus."
RL Submitted (JAN-2003) to the EMBL/GenBank/DBJ databases.
CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
CC -1- SIMILARITY: Belongs to the interleukin-1 receptor family.
CC -1- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.
CC -1- SIMILARITY: Contains 1 TIR domain.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL: AY165593; AAC02634.1; -
DR InterPro: IPR007110; Ig-like.
DR InterPro: IPR003598; Ig_c2.
DR InterPro: IPR004075; IL1_receptor1.
DR InterPro: IPR000157; TIR.
DR Pfam: PF00047; Ig_2.
DR Pfam: PF01582; TIR_1.
DR PRINTS: PRO1537; INTRKKNR1F.
DR SMART: SM00408; IGC2; 1.
DR SMART: SM00255; TIR; 1.
DR PROSITE: PS50835; IG_LIKE; 3.
DR PROSITE: PS50104; TIR; 1.
KM Glycoprotein; Immunoglobulin domain; Receptor; Repeat; Signal;
KM Transmembrane.
FT CHAIN 1 24 Potential.
FT 25 696 X-linked interleukin-1 receptor accessory
FT protein-like 1.
FT DOMAIN 25 357 Extracellular (Potential).
FT TRANSSEM 358 378 Potential.
FT DOMAIN 379 696 Cytoplasmic (Potential).
FT DOMAIN 25 134 Ig-like C2-type 1.
FT DOMAIN 143 332 Ig-like C2-type 2.
FT DOMAIN 242 350 Ig-like C2-type 3.
FT DOMAIN 403 562 TIR.
FT DISULFID 53 118 Potential.
FT DISULFID 164 216 Potential.
FT DISULFID 267 334 Potential.
FT CARBOHYD 63 63 N-linked (GlcNAc...) (Potential).
FT CARBOHYD 122 122 N-linked (GlcNAc...) (Potential).
FT CARBOHYD 138 138 N-linked (GlcNAc...) (Potential).
FT CARBOHYD 213 213 N-linked (GlcNAc...) (Potential).
FT CARBOHYD 264 264 N-linked (GlcNAc...) (Potential).
FT CARBOHYD 331 331 N-linked (GlcNAc...) (Potential).
SQ SEQUENCE 696 AA; 79771 MW; 3684FCCDD0AB3FD9 CRC64;

Query Match 11.9%; Score 256.5; DB 1; Length 696;
Best Local Similarity 26.0%; Pred. No. 9, 1e-13;
Matches 93; Conservative 64; Mismatches 152; Indels 49; Gaps 15;
QY 6 DRAPDFLSPSEDO-VLRPALSSVALNCTANVWSPHCSLSVOMLKGLPLGIGHS 63
Db 239 DKPKLLYPMESEKLTQETOLGSAULTCRAFEGYSDVS-PLIYMK-----GEKR 289
QY 64 LHEYS-----W-----VKANLSEVLVSVLGVNVSTEVYGAFTSIONIS---FSSFTL 110
Db 290 IEDLDENRWESDIRLKEHLGEQVSLIYDSVEBGLGNYSCYVENGNRRHSLVLL 349
QY 111 QRAGPTSHVAAYLASLVLALLLAALVYKC-RLNVLLMYODAYEVEIN-DGKYDAY 168
Db 350 HKR-ELMYVELAGGAILLLVCGVTVLYCKKIRIMLFYRNHFGAEEDGNKDYAD 408
QY 169 VSY-----DCEDEKFPVNFILKPOLERRRGKTLDDRDLLPRAPSDLLVNS 219
Db 409 LSYTKVDPDQMNQETEEERFALIELPMLKRYGKLFIPRDLIPTGYIEDVARCVD 468
QY 220 RCRRLIVLSDAF-LSRAWCSHFRGLRLLELTR-RPIFTFEGQRDPAPALRLR 277
Db 469 QSRRLIVTVTPVYVVRKGSITFELTRLNMLVTGKIVLLCESELRGIMYQEVBAIK 528
QY 278 RCRHRLVTLMLMR-PSGVTSPSDFWKEVQALPRKYRYPV-----EGDPOTOLQ 325
Db 529 HTIKLTVTKMGPCKNKNLSKFWKRLQYEMFPK-RIBPITHQALDVSEQGFSELO 585

RESULT 11
ID IP1L PONPY STANDARD; PRT; 696 AA.
AC 07YOL9;
DT 05-JUL-2004 (Rel. 44, Created)
DT 05-JUL-2004 (Rel. 44, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE X-linked interleukin-1 receptor accessory protein-like 1 precursor (IL1RAPL-1) (Oligophrenin-4).
GN Name=IL1RAPL; Synonyms=OPHN4;
OS Pongo pygmaeus (Orangutan).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Pongo.
OX NCBI_TaxId=9600;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22763540; PubMed=12777533; DOI=10.1093/molbev/msg134;
RA Kitano T., Schwarz C., Nickel B., Paabo S.;
RT "Gene diversity patterns at 10 X-chromosomal loci in humans and chimpanzees."
RL Mol. Biol. Evol. 20:1281-1289(2003).
CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
CC -1- SIMILARITY: Belongs to the interleukin-1 receptor family.
CC -1- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.
CC -1- SIMILARITY: Contains 1 TIR domain.
CC -----
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CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL: AB102652; BAC81121.1; -
DR InterPro: IPR007110; Ig-like.
DR InterPro: IPR003598; Ig_c2.
DR InterPro: IPR000157; TIR.
DR Pfam: PF00047; Ig_2.
DR Pfam: PF01582; TIR; 1.
DR SMART: SM00408; IGC2; 1.
DR SMART: SM00255; TIR; 1.
DR PROSITE: PS50835; IG_LIKE; 3.
DR PROSITE: PS50104; TIR; 1.

```
KM Glycoprotein; Immunoglobulin domain; Receptor; Repeat; Signal;
FT SIGNAL 1 18
FT CHAIN 19 696
FT DOMAIN 19 357
FT TRANSMEM 358 378
FT DOMAIN 379 696
FT DOMAIN 19 134
FT DOMAIN 143 242
FT DOMAIN 242 350
FT DOMAIN 403 562
FT DISULFID 53 118
FT DISULFID 164 216
FT DISULFID 267 334
FT CARBOHYD 63 63
FT CARBOHYD 122 122
FT CARBOHYD 138 138
FT CARBOHYD 213 213
FT CARBOHYD 264 264
FT CARBOHYD 331 331
SQ SEQUENCE 696 AA; 79936 MW; 0332PEC31C2D4B1 CRC64;

Query Match 11.9%; Score 255.5; DB 1; Length 696;
Best Local Similarity 26.5%; Pred. No. 1.1e-12;
Matches 95; Conservative 64; Mismatches 149; Indels 51; Gaps 15;

QY 6 DRAPDLPSPEBDQ-VLRPALGSSVALNCTAAVVSQPHCSLPVQWLKDLPLGIGHS 63
DB 239 DKPPKLLYPVESKLTIGETQGDGANLTCAFAFGYSGDVS-PLIYMK-----GKXF 289
QY 64 LHYS-----W-----VKALSEVLVSQVNTSTEVYGAFTCSIQNIS---FSSFTL 110
DB 290 IEOLDNRVNSDRIKELHGEQVSIISLVDSVEGDIGVNSCYVENNGRRHSAVL 349
QY 111 QRAG--PTSHVAAVLASLVLALLALALVVKRLNVLWYODAYGEVEIN-DGKLYDA 167
DB 350 HKRELMTVYLAGLGLAILLLVCLVT--IYKCKIKIMLPTRNHFAEILDGDKQYDA 407
QY 168 YVYS-----DCEPRKFPVNFILKPOLERRRGYKFLDDBLLPRAEPSADLLVNL 218
DB 408 YLSYTKVDPDMQNETGEERFALEILPDLMEKHYGKFLPDRDLPTGYIEDVAVCV 467
QY 219 SRCRLILVLSDAF-LSRACSHSFRGLCRLELT-RPIPTTPEGQRDPAPALRL 276
DB 468 DQSKRLITVTPVYVARGMSIFELTRLRNMLVTGBIKYLIECSHLRGMVQVEAL 527
QY 277 RQHRHLVTLTLMR-PGSVTPSPDPFKEVOLALPKVYRVV-----EGDPQQLQ 325
DB 528 KHTIKLITVIMKMGPKCNKLNKFWKLYQYEMPPK-RIFPTTHQALDVSEQGFPELQ 585

RESULT 12
IR18 MOUSE STANDARD; PRT; 537 AA.
AC 061058;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Interleukin-18 receptor 1 precursor (IL1 receptor-related protein)
DE (IL-1R1p).
GN Name=il18r1;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OC NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A. AND VARIANT ALA-317 DEL.
RX MEDLINE=8623957; PubMed=8626725; DOI=10.1074/jbc.271.8.3967;
RA Parrot P., Garika K.E., Bonner T.P., Dower S.K., Sims J.E.;
RA "IL-1R1 is a novel receptor-like molecule similar to the type I
RT interleukin-1 receptor and its homologues TI/ST2 and IL-1R ACP.";
RL J. Biol. Chem. 271.3967-3970(1996).
```

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CC -1- FUNCTION: Receptor for interleukin 18 (IL-18). Binding to the
CC agonist leads to the activation of NF-kappa-B.
CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
CC -1- MISCELLANEOUS: Does not bind interleukin 1 alpha (IL-1A) or
CC interleukin 1 beta (IL-1B).
CC -1- SIMILARITY: Belongs to the interleukin-1 receptor family.
CC -1- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.
CC -1- SIMILARITY: Contains 1 TIR domain.
CC -----
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CC -----
DR EMBL: U43673; AAC52437.1; -.
DR HSP: Q15399; 1FVY.
DR MGD: MGI:105383; 118r1.
DR InterPro: IPR003599; I9.
DR InterPro: IPR007110; I9-1like.
DR InterPro: IPR004075; IL1_receptor1.
DR InterPro: IPR000157; TIR.
DR Pfam: PF00047; I9_3.
DR Pfam: PF01582; TIR_1.
DR PRINTS: PRO1537; INTRKNIRIF.
DR SMART: SM00409; I9_2.
DR SMART: SM00255; TIR_1.
DR PROSITE: PSS0835; I9_LIKE_1.
DR PROSITE: PSS0104; TIR_1.
DR Glycoprotein; Immunoglobulin domain; Polymorphism; Receptor; Repeat;
KM SIGNAL; Transmembrane.
FT SIGNAL 1 19
FT CHAIN 20 537
FT DOMAIN 20 326
FT TRANSMEM 327 347
FT DOMAIN 348 537
FT DOMAIN 33 102
FT DOMAIN 134 189
FT DOMAIN 212 312
FT DOMAIN 370 519
FT DISULFID 141 182
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FT CARBOHYD 134 134
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FT CARBOHYD 200 200
FT CARBOHYD 233 233
FT CARBOHYD 295 295
FT VARIANT 317 317 Missing.
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QY 9 PDLPSPEBDQVLRPALGSSVALNCTA-----WVSGPHCSLPVQ-----WLK 51
DB 212 PAILGRCRKYV-GVEIGKQVLELNCASLNKNDLFWYSIRKEDSDPVQCRRKETTWS 270
QY 52 DGLPLGIGHYSLHEYSWYANSEVLVSQVNTSTEVYGAFTCSION---ISPSF 108
DB 271 EG-----KTHASKILTRP-----KITENYLVNLYNCTVANEBAIDTKSF 309
QY 109 TLQR---AGPTSHAVALASLVL--LALLAALLVVKRLNVLWYOD-AYGEVEINDG 162
DB 310 VLVRKEIPDIPGHVPGVTVLVLASVAANVCIVLCVYKVDVLPFRRAABEDDTLTDG 369
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RT "IL-1 signaling cascade in liver cells and the involvement of a
RT soluble form of the IL-1 receptor accessory protein." ;
RL J. Immunol. 164:5277-5286(2000).
RN (4)
RP SEQUENCE FROM N.A. (ISOFORMS 1, 2, 3 AND 4), AND INDUCTION BY PHORBOL
RP ESTERS.
RC TISSUE=Liver;
RX MEDLINE=22664804; PubMed=12781872;
RA Jensen L.E., Whitehead A.S.;
RT "Expression of alternatively spliced interleukin-1 receptor accessory
RT protein mRNAs is differentially regulated during inflammation and
RT apoptosis." ;
RL Cell. Signal. 15:793-802(2003).
RN (5)
RP SEQUENCE FROM N.A. (ISOFORM 2).
RC TISSUE=Skin
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haile F.,
RA Diatchenko L., Marusina K., Farmer A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Ueda T.B., Tomihata S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullenbach S.J.,
RA Bosak S.A., McMan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sedergren E.J., Lu X., Gibbs R.A.,
RA Fahney J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield V.S.N., Krzywicki M.I., Skalka U., Smilans D.E.,
RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.,
RA "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences." ;
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN (6)
RP SEQUENCE OF 118-179 FROM N.A. (ISOFORM 1).
RX MEDLINE=98140136; PubMed=9479509; DOI=10.1006/geno.1997.5113;
RA Dale M., Hammond D.W., Cox A., Nicklin M.H.;
RT "The human gene encoding the interleukin-1 receptor accessory protein
RT (IL1RAP) maps to chromosome 3q28 by fluorescence in situ hybridization
RT and radiation hybrid mapping." ;
RL Genomics 47:325-326(1998).
RN (7)
RP INTERACTION WITH IRAK2.
RX MEDLINE=22546438; PubMed=12659850; DOI=10.1016/S0006-291X(03)00385-1;
RA Boch J.A., Yoshida Y., Koyama Y., Wara-Aswapati N., Peng H., Unlu S.,
RA Auron P.E.;
RT "Characterization of a cascade of protein interactions initiated at
RT the IL-1 receptor." ;
RL Biochem. Biophys. Res. Commun. 303:525-531(2003).
RN (8)
RP TISSUE SPECIFICITY.
RX MEDLINE=22419343; PubMed=12530978; DOI=10.1016/S1074-7613(02)00514-9;
RA Smith D.E., Hanna R., Friend D., Moore H., Chen H., Faresse A.M.,
RA Macvittie T.J., Virca G.D., Sims J.E.;
RT "The soluble form of IL-1 receptor accessory protein enhances the
RT ability of soluble type II IL-1 receptor to inhibit IL-1 action." ;
RL Immunity 18:87-96(2003).
RN (9)
RP FUNCTION: Mediates interleukin-1-dependent activation of NF-kappa-
RP B. Isoform 1 is part of the membrane-bound form of the IL-1
RP receptor. Signaling involves formation of a ternary complex
RP containing IL1RI, TOLLIP, MYD88, and IRAK1 or IRAK2. Isoform 2
RP modulates the response to interleukin by associating with soluble
RP IL1RI and enhancing interleukin-binding to the decoy receptor.
RN (10)
RP SUBCELLULAR LOCATION: Type I membrane protein (isoform 1). Isoform
RP 2, isoform 3 and isoform 4 are secreted.
RN (11)
RP ALTERNATIVE PRODUCTS:
RP Event=Alternative splicing; Named Isoforms=4;
RP Name=1; Synonyms=Membrane-bound IL-1RacP, mIL-1RacP;
RP IsoId=Q9NPB3-1; Sequence=Displayed;

CC Name=2; Synonyms=Soluble IL-1RacP, sIL-1RacP;
CC IsoId=Q9NPB3-2; Sequence=VSP_008050, VSP_008051;
CC Name=3; Synonyms=Soluble IL-1RacP-beta, sIL-1RacP-beta;
CC IsoId=Q9NPB3-3; Sequence=VSP_008052;
CC Name=4;
CC IsoId=Q9NPB3-4; Sequence=VSP_008053;
CC TISSUE SPECIFICITY: Detected in liver, skin, placenta, thymus and
CC lung.
CC -1- INDUCTION: Phorbol ester treatment causes down-regulation of
CC isoform 1 and induction of isoform 2.
CC -1- SIMILARITY: Belongs to the interleukin-1 receptor family.
CC -1- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.
CC -1- SIMILARITY: Contains 1 TIR domain.
CC -----
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CC -----
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CC EMBL; AB006537; BAA25421.1; -;
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CC EMBL; AF167340; AAF71688.1; -;
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CC EMBL; AF487335; AAQ49451.1; -;
CC EMBL; BC053621; AAH5621.1; -;
CC EMBL; AF016261; AAC39609.1; -;
CC Genew; HGNC:5995; IL1RAP.
CC MIM; 602626; -;
CC InterPro; IPR003599; Ig.
CC InterPro; IPR007110; Ig-1like.
CC InterPro; IPR004075; IL1_receptor1.
CC InterPro; IPR004074; IL1_receptor1/IL1.
CC InterPro; IPR000157; TIR.
CC Pfam; PF00047; Ig_2.
CC Pfam; PF01582; TIR_1.
CC PRINTS; PRO1536; INTRLUK1R12F.
CC PRINTS; PRO1537; INTRLUK1R1F.
CC SMART; SM00409; Ig_3.
CC SMART; SM00255; TIR_1.
CC PROSITE; PS50835; IG_LIKE; 2.
CC PROSITE; PS50104; TIR_1.
CC KW alternative splicing; Glycoprotein; Immunoglobulin domain; Receptor;
CC Repeat; Signal; Transmembrane.
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CC FT CHAIN 21 570 Interleukin-1 receptor accessory protein.
CC FT DOMAIN 21 367 Extracellular (Potential).
CC FT TRANSMEM 368 388 Potential.
CC FT DOMAIN 389 570 Cytoplasmic (Potential).
CC FT DOMAIN 21 128 Ig-like C2-type 1.
CC FT DOMAIN 141 230 Ig-like C2-type 2.
CC FT DOMAIN 242 348 Ig-like C2-type 3.
CC FT DOMAIN 403 549 TIR.


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FT DISULFID 47 114 Potential.
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FT CARBOHYD 107 107 N-linked (GlcNAc. . .) (Potential).
FT CARBOHYD 111 111 N-linked (GlcNAc. . .) (Potential).
FT CARBOHYD 118 118 N-linked (GlcNAc. . .) (Potential).
FT CARBOHYD 196 196 N-linked (GlcNAc. . .) (Potential).
FT CARBOHYD 209 209 N-linked (GlcNAc. . .) (Potential).
FT CARBOHYD 299 299 N-linked (GlcNAc. . .) (Potential).
FT VARSPLIC 351 356 VPAPRY -> GNRGCG (in isoform 2).
FT VARSPLIC 357 570 /FtId=VSP_008050.
FT VARSPLIC 302 570 Missing (in isoform 2).
FT VARSPLIC 302 570 /FtId=VSP_008051.
FT ISHSRDETRTQILSIKVTSEDLKRSYVCHARSAKEVA
FT KAAVKOKVPAPRYTVELACFGATVLLVLLIVYHYWL
FT EMVLFYRAHFGTDETLIDGKEDIYVGYARNAEEEFVLLT
FT LRGVLENEPGYKLCIFDRDSLPGIYTDETLSFIQSRLL
FT VVLSPNVYLGQTQALLKAGLENNASRGNNIVLYQYKAY
FT KETIVKELKRAKTVLIVKMGKSKYPOGRFMKQOVAMP
FT VKKSPRRSSDEGLSYSLKNV -> ASSKIHSGTGLMFW
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QY 68 SWKANISEVLVSSVLCV-NVTSTEVYGAFTC--STQNTSFSSTLQRAQPTSHVAVL 123
Db 301 SISHSRTEDETRTQILSIKVTSEDLKRSYVCHARSAKEVAKAKVKOKVPAPRYTVEL 360
QY 124 A---SLVLLALLLALLLYVYKRLNVLWYODAYGEVE-INDKLYDAYVSYSDCPEDRK 179
Db 361 ACGFGATVLLVLLIVYHYW-LEMYLFRAHFGTDETLIDGKEDIYVGYARNAEEEFVLLT 419
QY 180 FVNFIILKPOLERRRGYKLFDDRDLPRAPESADLVNLSRCRLIVLSDAPLSRAWCS 239
Db 420 FVLLTLRGVLENEPGYKLCIFDRDSLPGIYTDETLSFIQSRLLVVLSPNVV----- 473
QY 240 HSRREGICRLLELTRRPIFTFEG-----QRDPAPALRLRQHRHLVTLILMR-PG 291
Db 474 ---LQGTQALLLELKAGLENNASRGNNIVLYQYKAYKETIVKELKRAKTVLIVKMGKEX 530
QY 292 SVTPSSDFMKKVOLALPRKTVYRVEGDPQ 321
Db 531 SKYPOGRFMKQOVAMPVKKSPRRSSDEQ 560
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